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6]-[-[-1,4]-7], 6-bix(4--authosyphamyi)-86-cackavol-9-yi[propyi]-1-piproaninyi[butonyi-1,2,3,1la-tatrahydro-7-mathoxy*, ((1a8)- (CA INDEX NEWS)
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CAS Registry Number 1335249-27-0 CAPLUS

Chesical or Yeads Ness
SH-Pyrcola[2,1-c][1,4]banrodiarapin-5-ons,
sl-1-t-[4-1,5-6]s-6-bac-cholorophnyll-9H-carbon-1-9-yl|babyl]-1pippearinyl|botosy|-1,2,3,lis-tatrabydro-7-nathony-,
(IlsE)- (CA IMEEX
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CAS Registry Number 1335249-50-7 CAPCUS

Chemical or Trade Mome
Melbanone. [(281-2-]bis(ethyllhio)methyl]-l-pyrrolidinyl[[4-[4-[3.6-bis(4-mathoxyphmyl]-9H-carbanol-9-yl[batoxy]-5-mathoxy-2-mitrophanyl]- (CA IRREX SAGE)

CAS Registry Number 1335249-59-6 CAPLUS

Chemical or Trade Name
Mathemone, [4-[4-[3,6-bix](4-chlorophany1]-38-carbmrol-9-y1]beboxy]-5mathemy-3-nitrophany1|[(28]-2-[bix(eb)y1thio]methy1]-1-pyerolidiny1|(CA
INDEX NAME)

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CAS Fagistry Number 1335249-70-1 CAPLUS

Chemical or Trade Reme
Mathemone, [(25)-2-[bis(sthylthio)mathyl]-1-pyrrolidinyl][4-[3-[4-[3-[3,6-bis(4-mathexpythrmyl]-98-carbenol-9-yl]propyl]-1-pipereximyl[propony]-5-mathemoney-milrophemyl]- (CREMY NOW)

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CAS Registry Number 1335249-75-6 CAPCUS

PAGE 1-B

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CAS Registry Number 1335249-89-2 CAPLUS

Chemical or Trade Name
Mathemone, [2-amino-4-]5-[3,6-bix[4-(trifluoromethoxy)phenyl]-98-certaerol3-yl[propoxy]-5-methoxyphenyl][22]-2-[bix(etbylthio)methyl]-1pyrenichnyl]= (OL NBURX NBMS)

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CAS Pagistry Number 1335249-95-0 CAPGUS

Chrmical or Trade Rame
Mathemone, [2-mino-4+]5-[3,6-blx[4-chlorophany1]-3H-cacherol-9yl[propoxy]-5-mathoxyphany1][(25)-2-[bix[athy1thio]mathy1]-1-pyce
(CA IRMON NAME)

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CAS Registry Number 1335250-08-2 CAPLUS

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CAS Pagistry Number 1335241-07-6 CAPCUS

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CAS Registry Number 1335609-11-4 CAPLUS

Author/Inventor
Fol, Xuoning; Gu, Yingchun; Li, Chao; Yang, Xu
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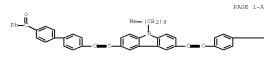
CAS Registry Number 1332477-30-1 CAPLUS

Chinical or Trads Rens Quincilnium, A=[2-[6-(2-bennosamoly])=9-(phanylmathyl)=581-carbenol=3-yl|sthnnyl|=1-(1-broncepropyl)=. Bronids (1:1) (CA INGEX NAME))

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CAS Registry Number 1325210-34-1 CAPCUS

Chemical or Trade Name Mathemone, 1,1'-| (9-decyl-9R-carbamola-5,6-diy1)bix(2,1-athymadiy1|1,1'-biphenyl|-4',4-diy1||bix|1-phenyl- (CA BNDEX NAME)



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CAS Registry Number 1303981-88-5 CAPLUS Chemical or Trade Name

CRS 3132-99-0 CRF C7 H5 Rc O

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CAS Registry Number 1335129-75-3 CAPLUS

Chamical or Trade Name 98-Carbarole, 9-ethyl-3.6-bis[(1E)-2-[?-(2-pyridinyl)-2.1.3-benrothiadianol-4-yl|ethenyl|- (CA INDEX NAME)

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rentor Hung, Ta-Chau, Cho, Chile-Chien, Chang, Cheng-Chung; Kang, Chi-Chile; Wang, Zi-Fu signee/Copourle Source cademia Sinice, Talssan

PATENT NO. KIND DATE APPLICATION NO. DATE
EP 2019942 A1 20110011 EP 2010-1899 20100210
US 20110111439 A1 20110012 US 2009-6127700 20091106

CAS Registry Number 1301708-00-5 CAPLUS

Chemical or Trads Name
Pyridinium, i, 4-1[9-[4-(1-melbylpiperidinio) bubyl]-98-cerkerole-3,6dylldi-2,1-ebhemedyllbis[1-melbyl-, iodide (1:3) (CA INGEX NAME)

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CAS Registry Number 1273569-17-7 CASCUS

Chemical or Trade Name 9H-Carbarole, 3.6-bis[9-(2-bromophenyl)-98-fluoren-9-yl|-9-heayl-INDEX NAME)

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Chemical or Trade Rame Mathemone, (9-athyl-6-mikro-28-ca O-acetyloxiae (CA INDEX NAME)

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Chemical or Trade Name
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2-|O-|2-methyl-1-car-2-(1-pyreolidinyl)peopyl|onime| (CA INDEX NAME)

PAGE 1-A

hentor Geng, Wes Qian; Li, Xian Lei; Yin, Jian Hui; Ke, Wei Zei; Hao, Fu Yin; Xu, Guo Yi, Zhou, Hong Ping, Wu, Jie Ying Tian, Yu Peng designeoi-Coposilo Sousco Dopartmart of Chemitry, Arthui University, Hefel, 230039, Peop. Rep. China

Science China: Chemistry (2011), 54(1), 173-179 CODEN: SCCCCS; ISSN: 1969-1970 ort Type Journal (online computer file)

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CAS Registry Number 1273569-17-7 CAPGUS

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. Journal of the American Chemical Society (2011), 139(5), 1428-1497 CODEN: JACSAT, ISSN: 0002-7983 ent Type Journal, (entire computer file)

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CAS Registry Number 1235401-53-4 CAPCUS

Chemical or Trade Rama SH-Carcharola-3-athonol, $\alpha = \{ \lfloor (5-mathoxyphany1) amino | mathyl| - 3, 6-dimethyl- (CA INCEX NAME) \}$

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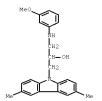
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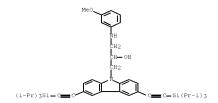
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CAS Registry Number 1235401-53-4 CAPLUS

Chamical or Trade Name 9H-Carbanole-9-sthemol, g-[[(3-mathoxyphanyl)amino|mathyl|-3,6-dimathyl- (CA INSEX NAME)



CAS Registry Number 1260172-45-9 CAPLUS



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CAS Registry Number 1262220-32-5 CAPLUS

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7.*-[19-1e] (*)-[4-hydroxy-hyd lastno)-2-anosthyl -3H-carthanole-5, 6-diyl|di3.1-seyspannisyl|hastn/A-dinnshydjyvy-1-charmyl-1-outy-4-themosyl-1-outy-4-dinnshyl-

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CAS Pagistry Number 1262053-30-4 CAPLUS

Chemical or Trade Rams 98-Carbanol-J-emine, 6,9-dimethyl- (CA DROEX NAME)

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Chemical or Trade Rene 1-Propanone, 3-cyclopentyl=1-[9-sthyl=6-(2-asthylbe-vl]-, 1-(0-acatylogias) (CA INDEX NAME)

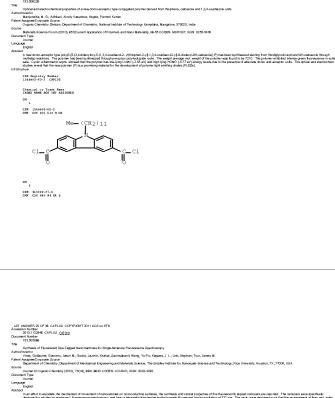
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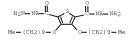
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Chemical or Trade Rene 1,2-Proparedions, 1-(9-sthyl-6-nitro-98-carbanol-3-yl)-, 2-[O-(1-ombotyl)osims] (CA INDEX NAME)

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CAS Requistry Number 1241009-75-7 CAPLUS

Chemical or Trade Name 1,2-Propagations, 1,1'-[2,5-thiophanediythis|carbomyt(9-sthyl-98-carbomola-8,3-diyt|1|bis-, 2,2'-bis(0-acetylonism) (Ch INDEX MARS)

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Author/Inventor
Chen, Shaw H.; Zeng, Lichang; Lee, Thomas Yung-Hain
Patent Assignme/Coposate Source
The University of Rocheder, USA

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CAS Registry Number 1234629-56-1 CAPLUS

Chemical or Trade Rame 3,3':6',3''-Ter-9M-carbarole, 9',9''',9''''-[1,3,5-briaxine-2,4,6-brightris(4,1-phanylane-3,1-propanediy1||bris[9,9''-bis[2-asthylpropy1)(CA IMDEX JAMES)

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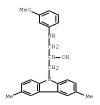
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CAS Registry Number 1235481-53-4 CAPLUS

Chemical or Trade Name 9H-Garbanola-9-shimool, $e-|\cdot|$ (5-mathoxyphanyl)amino|mathyl|-3,6-dimathyl- (CA INSEX SAME)



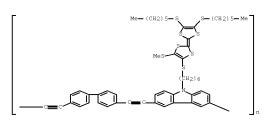
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CAS Registry Number 1239207-21-3 CAPLUS

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Chanical or Trade Rams 4-Pentan-lone, 2-(dimethylamino)-1-[9-(2-ethoxye 98-carbonol-3-yl]-2-ethyl- (CA INDEX NAME)

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CAS Pagistry Number 1257519-42-0 CAPCUS

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CA 2736097	A1	20100415	CA 2009-2736097	20091005
KR 2011066190	A	20110616	KR 2011-7009438	20091005
EP 2356093	A1	20110817	EP 2009-793304	20091005
CN 102203083	A	20110928	CN 2009-80140333	20091005

Chemical or Trada Rama Ethenome, i.i.'=19-[2*(disthylemino)sthyl]=3H*-corborole=3, 6*-diyl[bis*] (CA TREEK NAME)

CAS Pagistry Number 1221239-26-4 CAPCUS

Chemical or Trade Rene Benzemesulforemide, N-[2-[3,6-bis(3-chloro-1-y1]stby1]=2-mitro- (CA INDEX NAME)

CAS Registry Number 1221235-73-8 CAPLUS

Chemical or Trade Name
Ethnone, 1-[9-[2-(disthylamino)sthyl]-6-(2-methyl-4-pyrimidinyl)-98cathmol-3-yl]- (C. INDEX NAME)

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CAS Registry Number 1228794-79-3 CAMEUS

Chemical or Trade Name SH-Carbanals, 3, 6-bis[(1E)-2-[4-(2-benzothismoly])phanyl[sthemyl]-9-bebyl-(CA INDEX NAME)

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CAS Registry Number 1227936-52-0 CAPCUS

Chanical or Trads Nama Indio(3.2-b) carbarola. 5.11-bis[9-(2-bb)theayl][3.9'-bi-9H-carbarol-6-yl]-5.11-bis[ydro-6-penkyl- (CA INGEX NAME)]

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Chemical or Trada Rama 98-Carcharole, 9,9'-[1,4-phenylenebis(methylene)|bis[3,6-diethyl- (SCI) (CA INGEX RAME)

CAS Registry Number 849820-37-7 CAPLUS

Chemical or Trade Name
98-Carbanols, 9,9'=[1,4-phenylenebiz(methylene)|biz[3,6-biz(1,1-dimethylethyl)- (SCI) (CA INDEX NAME)

CAS Registry Number 049020-40-0 CAPLUS

Chamical or Trads Ress SH-Carbarola, 9, 9'-19,10-anthracemediylbix(4,1-phenylanemethylane)|bix[5,6-bix(trillucementhyl) (GCT) (CA INGEX NAME)

PAGE 2-A

CAS Registry Number 849820-59-3 CASLUS

Chanical or Trade Hene 9H-Carbanole, 9,9'-[(9,9-diphenyl-9H-fivorene-3,6-diyl]bix(mathylam)|bix[3,6-diphenyl- (CA INDEX NAME

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PATENT NO.	KND	DATE	APPLICATION NO.	DATE
JP 2004342391	A	20041202	JP 2003-135706	20030514
JP 4305046	82	20090729		

CAS Registry Number 199559-74-3 CAPLUS

Checical or Trade Name
98-Carbarole. 3.3'-[1.4-phenylenebis[(1-methylethylidene)-4.1-phenylene[|bis[9-ethyl-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 199559-99-2 CAPCUS

CAS Registry Number 199560-03-5 CAPLUS

Chemical or Trade Name SM-Carbamola, 3,3'-cyclopantylidanabis|9-athyl-6-(trifluor INGEX NAME)

CAS Registry Number 799560-10-4 CAPLUS

Chemical or Trade Name 98-Carbanole, 3,3',3'',3'''=(1,4-cyclohean (trifluoromathyl)- (3CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

CAS Registry Number 799560-20-6 CAPEUS

Chunical or Tesis Here 98-Cacknote, 9-shtyl-54[4-[9-kk]yl-58-cacknote-5-yk]phsnyl]-9,10-dilygic-3,6,10,10-kalcamathyl-9-anthracanyl[phsnyl]-6-mathyl-(CA INDEX MAGE)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPAUS ENCOROS THAT CITE THIS ENCOR

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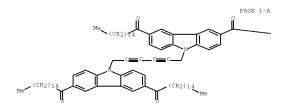
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CAS Registry Number 434914-04-2 CAPLUS

Chamical or Trads Name
1-Randscarons, 1,1',1'','(2,4-hazadiyas-1,6-diyldi-28-carbarola-9,3,6-briyllthredsis-, homopolymer (SCI) (CA BROEK NAME)

CDH 434914-03-1 CMF C94 H140 N2 C4



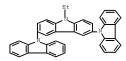
PAGE 1-B

OS.CITING PEF COUNT: 4 THESE ARE 4 CAPLUS PECORDS THAT CITE THIS PECORD (4 CLIDNG)

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PATENT NO.	KND	DATE	APPLICATION NO.	DATE
WO 2004101517	Al	20041125	WO 2004-JP5405	20040513
US 20050031899	Al	20050210	US 2004-839123	20040506
US 7504162	82	20090317		
JP 4558510	82	20101006	JP 2004-567661	20040513

CAS Registry Number 797057-70-6 CAPCUS



CAS Registry Number 797057-71-7 CAPLUS

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1477544	A2	20041117	EP 2004-102113	2004051
EP 1477544	A3	20061206		
US 20040234614	AL	20041125	US 2004-844352	2004051
JP 2005154404	Α	20050616	JP 2004-143337	20040513

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Chastcal or Tode Name intelly[phanylinthy]|-6-[(3.4-diamby]|phanylinthy]|-6-[(3.4-diamby]|phanylinthy]|-9-thenyl- homepolymer [KCI] (CA [NOBK NAME]) CK

CROF C32 H31 N

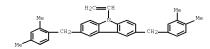
CAS Registry Number 793717-64-3 CASCUS

Chemical or Trade Rame 98-Carbarole, 3.6-bis(9 (CA INCOX NAME)

CRN 793717-62-1 CNF C44 831 N

CAS Registry Number 793717-58-5 CAPLUS

Chamical or Trade Mans 98-Carbanole, J-[(2,4-dimethylphenyl)methyl]-6-[(3,4-dimethylphenyl)methyl]-9-ethenyl- (CA DEGEX NAME)

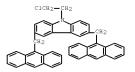


CAS Registry Number 793717-62-1 CAPLUS

CAS Registry Number 193717-57-4 CASSUS

CAS Registry Number 193717-60-9 CAPLUS

Chemical or Trade Name SH-Carbanols, 3,6-bix(9-NAME)



OB.CITING REP COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L38 ANSWER 6 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2004 979496 CAPLUS Faithful 142122672
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New Carbasa bi-Oxadiazole Dyada bi-Electrolumines cent Davises; la Authoritimento: Thomas, K. R., Justin, Lie, Jiam T.; Tao, Yu-Tai; Chuen, Chang-Hao Patent Assignos/Coposate Source Institute of Chemistry, Academia Sinica, Taipei, Taiwan

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CAS Registry Number 021007-62-9 CAPLUS

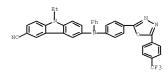
Chimical or Teads Name 98-Carbarola-5-carbonitrila, 9-athyl-6-(phanylamino) - (CA INGEX NAME)

CAS Registry Number 021007-50-3 CAPCUS

Chemical or Trede Rene SH-Carbonicals, $\theta = [14-[5-[4-(1,1-diaghhylathyl)]]+1,3,4-oxdianol-2-qi[phnyl]phnylphnylphnylo-1-(CA INGEX HAME)$

CAS Registry Number 821807-59-4 CANCUS

Chimical or Trade Name
98-Carbanole-3-carbonitrile, 9-ethyl-6-[phenyl[4-[5-]4[ficitiosconePhyl]phenyl]-1, 3, 4-oxadianol-2-yl[phenyl]aninol[MAGE]



OS.CITING PEF COUNT: 19 THEFE APE 19 CAPLUS PECORDS THAT CITE THIS RECORD (19 CITING)

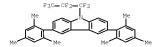
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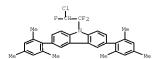
CAS Registry Number 173156-54-0 CAPLUS

Chemical or Trade Name 98-Carlerole. 9-(1.1.2.2.3.3.3-hepkeElworopropyk)-3.6-bis(2.4.6-krimethylphenyk)- (CA INGEX NAME)



CAS Registry Number 173156-55-1 CAPLUS

Chemical or Trade Name 98-Carbarole, 9-(2-chicco-1,1,2-triffs brimethylphemyl) - (CA INDEX NAME)



OS.CITING MEF COUNT: 3 THEME AME 3 CAMPLUS MECOMOS THAT CITE THIS MECOMO (3 CITINGS)

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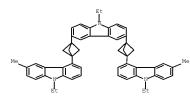
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CAS Registry Number 773148-57-5 CAPCUS

Chroical or Trade Rane 99-Carbarole, 3,3'-bicyclo[1.1.1|pentans=1,3-diylbis[9-sthyl=6-methyl= GCT] (CA INDEX NAME)

CAS Registry Number 273140-60-0 CAPLUS

Chamical or Teads Mans
SM-Carbarols, 9-athyl-3,6-bix[3-(9-athyl-6-aathyl-9M-carbylbacyclo[1.1.1|pant-1-yl|- (CA INDEX SMACE)



L38 ANSWER 9 OF 154 CAPLUS COP Accession Number 2004/786349 CAPLUS <u>Futhers</u> Document Number 142:240767 Tile

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CAS Registry Number 845301-85-1 CAPLUS

Chemical or Trads Name
1.4-Mennemediacetomitries, 2.5-bis(trimethylsityl)=, polymer with
2-octyl-2M-carhenola-3,6-dicarhoxaldshyde (SCI) (CA INDEX NAME)

CRM 3L9010-43-4 CMF C22 H25 N C2

CRM 247121-77-3 CNF C16 H24 N2 Si2

CAS Registry Number 845301-88-4 CAMLUS

OS.CITING PEF COUNT: 1 THERE ARE 1 CAPAUS RECORDS TRAT CITE THIS RECORDS (1 CITINGS)

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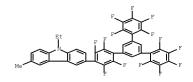
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Chemical or Trade Rame 98-Carbarole, 3,3'-(2,3,5,6-tetramethyt-1,4-phenylene)bis[6-mathylathyl)- (CA INDEX RAME)

CAS Registry Number 669072-60-0 CAPLUS

Chanical or Trade Rane 98-Gerbarole, 9-ebyl-3-methyl-6-[2,2",3,3",4",5,5",6,6"-monelluous 5"-(pentelluorophenyl)[1,1",3",1"-berphenyl-4-yl|- (9CT) (CA DIGEX RANG)



OS.CITING PEF COUNT: 10 THERE ARE 10 CAPLUS PECORDS THAT CITE THIS PECOND (10 CITINGS)

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rzed hydrobosalion of a variety of anomalic dyres, and a friyne afforded bisbory()- and hisbory(byl products. The hydroboration products underwert Suzuki cross-coupling reactions, with a variety mophore units to give fluorescent dyre-substituted products. The hydroborerion product also reacted with other mounteres to afford an oligomer with a virylein unit along the oligomer backbores.

156972-60-0 CAPAUS

Chemical or Trade Name 98-Carbanole, 3,6-disthymyl-9-heavyl- (CA IRDEX NAME)

CAS Registry Number 179357-36-7 CAPLUS

Chamical or Trads Rams SH-Carbanola, 3-hasyl-5,6-bix[(1X)-2-(4,4,5,5-bix[camathyl-1,3,2-diasaborola-2-yl)lehnyd|- (CA INGEX NNG)

CAS Registry Number 179357-45-8 CAPLUS

Chemical or Trade Rome SH-Carbanola, 3-haxyl-3,6-bix[(12)-2-(4,4,5,5-bate dioasborolan-2-yl)sthenyl|- (CA INDEX NAME)

OS.CITING PEF COUNT: 10 THEPE APE 10 CAPCUS PECODOS THAT CITE THIS PECCED (10 CITINGS)

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Catabasis compts, polymetror of the mot weight, as described electrocryptia a catabasis maltims unit are described by the general formula. (in 2.7) whereis each catabasis unit may be unsubstituted or substituted with a light elementing compound, especially a tiple emiter, compared or compound are also described. Electrocluminescent devices are described which employ the outside compound are also described. Electrocluminescent devices are described.

CAS Registry Number 628336-90-3 CAPLUS

Chimical or Trade Rama 3,3:6',3"-Fax-SH-carbarola, 9,9',9"-Ericotyl- (SCI) (CA INDEX SAME)

CAS Registry Number 714972-52-8 CAPLUS

Chemical or Trade Hene 3, 3'-biz(3,?-dimsthyloctyt) -6,6'-biz(4,4,5,5-tatemshyloctyt)-1,3,2-dioxaborolan-2-yl) - (CA INCEX SMEE)

CAS Pagistry Number ?46651-55-8 CAPLUS

Chamical or Trade Here 3,9°-diochyl-6,6°-bix(4,4,5,5-tatramathyl-1,3,2-dioasboolane-2-yl)- (CA INSEX NACC)

CAS Registry Number 746651-59-2 CAPLUS

Chemical or Teads Home 9R-Carbanols, 3,6-bix[9,9-bix(3,7-dimethylocby1)-98-fluoren-2-y1|-9-dacy1-(CA INDEX RAMS)

CAS Registry Number 746651-60-5 CAPLUS

Chemical or Trads Name 3,3'-94-94 | September 1,9'-94-94 | September

PAGE 1-B

OS.CITING PEF COUNT: 0 THERE ARE 0 CAPLUS RECORDS TRAT CITE THIS RECORD (13 CITEGE)

CAS Registry Number 120006-06-0 CAPLUS

OG.CITING PEF COUNT: 0 THERE ARE 0 CAPLUS RECORDS THAT CITE THIS RECORD (0 CITINGS)

Jpn. Kokali Tokkyo Koho, 34 pp. CODEN: JKXXAF infi Type Patent

Japanese Information				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004210766	Α	20040729	JP 2004-660.	20040105
JP 4077797	82	20080423		
ER 2004052250	A	20040707	ER 2003-49	20030102
US 20040146746	A1	20040729	US 2004-749390	20040102
US 6815094	82	20041109		
CN 1526609	Y	20040908	CN 2004-1002#332	20040102
CN 1330614	С	20070808		

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CAS Registry Number 720920-14-7 CAPAUS

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 20040150320	AL	20040905	US 2003-356702	20030131
	US 6833201	82	20041221		
	JP 2004231950	A	20040019	JP 2004-12769	20040121
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CAS Registry Number 332865-51-7 CAMLUS

Chemical or Teads Rome
Roley [9-(3-enidopropy)] -98-cerbarole-3, 6-diyl [(2-cyeno-1, 2-ethenediyl)][2, 5-bitpantyloxy)-1, 4-phenylans [(1-cyeno-1, 2-ethenediyl)] (ECT) (CA INDEX NAME)

OB.CITING MEF COUNT: 5 THEME AME 5 CAPPUR MECORDS THAT CITE THIS MECORD (5 CITENGS)

L38 ANSWER 14 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accessor Number 2004 61239 CAPLUS Eleberal Document Number 141146455 Capital Cap

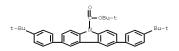
Author/Inventor and display
Author/Inventor (Microsity, Molocht), Yarmada, Takefocht; Kifa, Hirocht
Parled Assignee-Corporate Source
Konica Minolta Holdings, Inc., Japan
Source

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2004214050	À	20040729	25 5003-568	20030106
	JP 4265219	B2	20090520		
unc					

CAS Registry Number 728006-84-6 CAPLUS

Chemical or Trade Reme 98-Carbarola, 3-[4-[bix(2,4,6-trinathylphanyl)]boryl[-2,3,5,6-tetromethylphenyl]-9-ethyl-6-methyl- (9CI) (CA INDEX NAME)

Chemical or Trade Rene 3B-Carbonole-9-carboxylic acid, 3,6-bis[4-(1,1-dimethylathyl)phenyl|-1,1-dimethylathyl astar (CA INDEX NAMON)



OS.CITING REP COUNT: 0 THESE ARE 0 CAPLUS PECORDS THAT CITE THIS EXCORD 121 CITINGS)

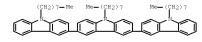
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veld, Bea M. W.; Kiggen, Nicole M. M.; Bardisamen, Jolanda J. A. M.; De Kok-Van Breemen, M.a

PATENT NO.	KND	DATE	APPLICATION NO.	DATE
WD 2004055129	Al	20040701	WO 2003-IB5762	2003120
AU 2003303057	λl	20040709	AU 2003-303067	2003120
EP 1572632	Al	20050914	EP 2003-813243	20031205
CN 1723257	A	20060118	CN 2003-80105635	20031205
CN 100384961	c	20080430		
JP 2006510231	т	20060323	JP 2005-502473	20031205
US 20060051611	A1	20060309	US 2005-538000	20050606

CAS Pagistry Number 620336-90-3 CAPLUS

Chemical or Trade Rams 5,5°:6°,5°'-Ter-98-carbasols, 9,9°,9°'-bricetyl- (901) (CA INGEX MANG)



CAS Registry Number ?14972-51-7 CAPLUS

Chinical or Trade Rame 9H-Carbanole, 3,6-bis(9,9-bis(3,7-dimethylockyl)-98-fluoren-2-yl[-9-octyl-(CA INDEX NAME)]

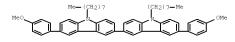
CAS Registry Number 714972-53-9 CAPLUS

CRM 71.4972-52-0 CMP C56 H70 B2 N2 O4

CN 3 CPR 626-39-1 CNP C6 H3 Be3

CAS Registry Number ?14972-55-1 CAPLUS

Chanical or Trade Rame 3,3'-Bi-9B-carbarols, 6,6'-bis(4-mathox RAMG)



CAS Registry Number 714972-56-2 CAPLUS

OB.CITING MEF COUNT: 5 THESE AME 5 CAPLUS MECODDS THAT CITE THIS MECODD (8 CITINGS)

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CAS Registry Number 46498-17-3 CAPUS

Chemical or Trade Rome 98-Carbanola-3,6-diamina, 9-mathyl- (CA INDEX NAME)

OS.CITING REF COUNT: 34 THREE ARE 34 CAPCUS ESCORDS THAT CITE THIS ESCORD (34 CITINGS)

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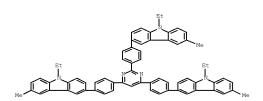
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CAS Registry Number 699119-50-9 CAPLUS

Chaoical or Trads Name 98-Carbarole, 1.3', 3''-(2,4,6-pyrimidinetriylkri-4,k-phenylenelbris[9-chby4-6-(2,1)] (CA INGEX NAME)



OS.CITING PEF COUNT: 2 THEFE ARE 2 CAPCUS PECORDS THAT CITE THIS PECORD (2 CITINGS)

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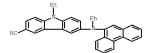
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CAS Registry Number

CAS Fagistry Number 764654-62-0 CAPLUS

CAS Registry Number 764654-63-9 CAPLUS

Chemical or Trads Rems 99 Grebarole-3-carbonitrils, 9-sthyl-6-(9-phenonthronylphenylemino) = (CA TRECS NAME)



CAS Registry Number 164654-64-0 CAPLUS

CAS Registry Number 764654-66-2 CAPCUS

OG.CITING REP COUNT: 23 THERE ARE 23 CAPLUS FROORDS THAT CITE THIS PROGRED (23 CITINGS)

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Chamical or Teads Name Benzantackonitrils, $\alpha,\alpha'=[19-(2-ably)lhasy1)-98-carborols-3,6-diyl|dinablylidyss|bix|4-brono-(9CT) (CA INDEX NAME)$

CAS Registry Number 169051-20-1 CAPLUS

CAS Registry Number 717110-75-3 CASCUS

Chunical or Yeafs Nams

Rennessectionity(is, p.g)*-[19-(2-shlylharyl)-98-carbarols-3,6-diyl_dissibly(dmy)bs_18-become, polyme with
2,7-dibcome-9,9-biz(2-shlylharyl)-98-flooress (SCI) (CA INGEX NAME)

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OS.CITING REF COUNT: 28 THERE ARE 28 CAPLUS PECORDS THAT CITE THIS PECORD (28 CITIMS)

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CAS Registry Number 605114-69-6 CAPLUS

CAS Registry Number 605114-70-7 CAPCUS

Chemical or Trade Name 98-Carbarola, 5.6-bix(1,5,2-dioxaborolan-2-y1)-9-octyl-, polymar with 1,7''-dibens-9.8.9',9',9'',9''-hease-dy1-2.8'|1'.8''-hea-98-fivecene (CA ROBEN NAME)

CAS Registry Number 605114-00-1 CAPCUS

Chesical or Trade News Poly| (9-octy)-98-oetherols-3, 6-diyl, (9,9,9',9',9',9'',9''-hesoctyl[2,2':7',2''-ter-98-floores|-1,7''-diyl)| (9CI) (CA IMDEX NAME)

PAGE 1-A Me_ (CH₂) 7 (CH₂) 7_Me (CH2)7-Me

PAGE 1-B

CAS Fagistry Number 685114-70-9 CAPLUS

Chemical or Trade Name 98-Carbarola, 3,6-bix(1,3,2-dioxaborolan-2-y1)-9-octy1-, polymar with 2,7-dibross-9,9-diocty1-98-fluorens (CA INDEX NAME)

CES 685114-69-6 CNG C24 H31 B2 N G4

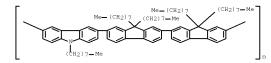
CAS Pagistry Number

Chemical or Trade Rame 98-Carbanole, J.6-bis(1,J.2-dioxaborolan-2-yl)-9-ostyl-, polymer with 7,7-diboson-9,3,9-% "elkhosotyl-2,2"-bi-98-fluorens (CA INGEX RAME)

CRN 605114-69-6 CNF C24 H31 H2 H C4

CRR 420065-53-6 CRF C50 H00 Re2

CAS Registry Number 605114-76-5 CAPLUS

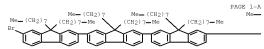


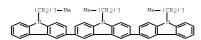
CAS Registry Number 711015-32-6 CAPLUS

Chesical or Trada Nose 13.2-disosaborelanni-yil-1-9-ociyi-1-31-Garbanala- 3.5-bis(1.3.2-disosaborelanni-yil-1-9-ociyi-1-31-darbanala- 3.5-bis(1.3.2-disosaborelanni-yil-1-9-ociyi-1-3-disosaborelan- 3.5-disosaborelan- 3.5-disosaborelan-companya (OCI) (CA 20002-3568)

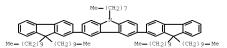
CRN 605114-69-6 CNF C24 H31 B2 N C4

CRH 646474-59-1 CNF C116 H160 Be2





CAS Registry Number 714972-56-2 CAPCUS



CAS Registry Number 126169-84-2 CAPLUS

Chamical or Trade Rose 3,3'-BL-98-carbonals, 6,6'-bix(9,9-didecyl-98-fluoren-2-yl)-9,9'-dioctyl-(CA INEES ROSE)

PAGE 1-B

OS.CITING PEF COUNT: 265 THERE ARE 263 CAPAUS PECORDS THAT CITE THIS PROCED (266 CITINGS)

CAS Registry Number 711015-33-7 CAPLUS

Chemical or Trade Rame
Poly[(9-octyl-98-cacharola-3,6-diyl)(9,9,9',9',9'',9'',9''',9'''octaoctyl[2,2::7],2'':7'',2'''-quatar-98-fluorans[-7,7'''-diyl][(9CI)
(6A DROEK NAME)

PAGE 1-A

OS.CITING PEF COUNT: 157 THESE ARE 157 CAPUTS PECCHOS THAT CITE THIS PECCHO (150 CITINGS)

List Assents 20 of 154 CAPULS COPPRIENT 2011 ACE on 87TH
Annual Transport CAPULS COPPRIENT 2011 ACE on 87TH
Annual Transport CAPULS CAP

be compounds. As four makes but the plan entries in organic light-entring doces. Immig he 10000 level who'ut flaterion, Kumenn, Van Djack, Olicones, Nebord, Bistissanson, Albinas J. A. M.; Kogon, Roob M. M.; Langevell, Eas M. W. Corposales, Entribus, NGB A.A. Helh. of the American Chemical Society 2004 J.; 12(16), 6035-6042 COOBH: M.CGAT, ISSN: 0022-7963

CAS Registry Number 628336-90-3 CAMEUS

Chemical or Trade Rens 3.3':6'.3''-Ter-98-cerbesole, 9.9'.9''-bricetyl- (SCI) (CA INDEX NAME)

```
Abstract
Optical properties of conducting polymers with 5th adoms in main dusins, such as optical absorption, imminiscence (FL), and electroluminiscences, were studied. The electronic energy-functions were delivering man
      CAS Registry Number
434952-90-4 CAPLUS
       Chinical or Trads Rens
Poly([9-(2-ethylhexyl)-88-carberole-1, 6-diyl]-1, 2-ethenediyl-1, 4-
phenylane(diphenylatennylane)-1, 4-phenylane-1, 2-ethenediyl| (9CI) (CA
INDEX NAME)
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PAGE 1-A

PAGE 1-B



OS.CITING PEF COUNT: 9 THEFE ADE 9 CAPLUS PEROPOS THAT CITE THIS PERCODD (9 CITINGS)

L38 ASSERT 24 OF 164 CAPUIS COPPRIGHT 2011 ACS on STN
Account Standard

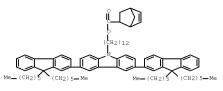
The Department of the Capuid Capuid

A well defined blue electroluminescent flucreer-cartabal-fluoree it him 4,5-bbs/(8-dileops/6H-fluoree?-4)% -8-bs/46f-catabascie was synthesized using a Sussisi type cross coupling reaction as the levy step. A way to attain this chromophere is a notionness was developed and the resulting electrolarative morner was polymerized using the fluid greater of crusts castled if IN Hotel model/4,5-fluid circless-2-yiddrees)(Decompyridee) (2/C)(Ps-CHF)(yrigh as amorphosphore) with a narrow more weight distribution, which was used to build it light entitling descributions becausing at 410 cm.

CAS Registry Number 600027-19-2 CAPAUS

Chemical or Trade Name
Micyclo[2.2.1]hmph-5-mn-2-carbnzylic acid,
12-13.5-blsi(9.9-dibasyl-9H-fluoren-2-yl)-9H-carbnvol-9-yl|dodecyl ester,
hospolymar (SCI) (CA IROEX NMH)

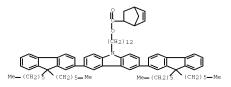
CPH 688027-18-1 CMF C88 H105 N C8



CAS Registry Number 688027-17-0 CASSUS

CAS Registry Number 688027-18-1 CAPLUS

Chemical or Trade News Bicyclo[2.2.1]hept-5-ans-2-carboxylic acid, 12-[3,6-bix(9,9-dibay1-98-fluoran-2-yl]-98-carbaxol-9-yl[dodacyl axtar (CA_180ER_NMSE)



CAS Registry Number 600027-20-5 CAPLUS

Checkcal or Trads Ress 98-Garbarole, 3,6-bis(9,9-dihezyl-98-fluoren-2-yl)-9-hezyl- (CA DNOSX RACE)

OS.CITING REF COUNT: 15 THERE ARE 13 CAPACE PECORDS THAT CITE THIS PECORDS (13 CITINGS)

CRN 672921-74-5 CRC C64 H54 N4 D4

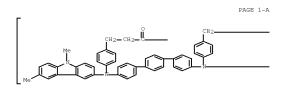
PAGE 1-B

CRN 107-21-1

HO-CH2-CH2-OH

CAS Registry Number 672921-76-5 CAPLUS

Chemical or Trade Ness Dily(xy=1,2-sthamadiylary(1-oso-1,3-propanadiyl)-1,4-phanylans[(6,2-distably)-89-(achosn-1-)-yllinins[[1,1](4',1')-terphrayl[-4,4')-diyl[(6,9-distably)-89-cachosn-1-yllinins[-1,4-phanylans(3-oso-1,3-propanadiyl)] (SCI) (CA INGEN NOWI)



PAGE 1-B

inventor of device and deplay apparatus, showing impo-paratus, Maurety, Kinoshia, Mickeli, Yamada, Talefoshi, Kifa, Hisobi Asagama Capessia Banda, Lagan Korias Minota Holdinga Inc., Japan Japan Kosali Takapa Kote, 43 pp. CODBN: JKXXAF Fibriot

of The 16e oppanic electroluminescent display device contains a 300-3000 mot weight carbazole derivatively represented by I (161 et m, alley), anyt allybey, anytony, allythic, anythic, anythic

Chinical or Trads Rens 98-Carbanole, 9.9'-(1,2-sthenediyl)bis[3,6-bis(1,1-dimethylsthyl)- (CA IRREX NAME)

CAS Registry Number 669072-36-0 CAPLUS

Chemical or Trade Rome 9H-Carbanols, 3,3'-(2,3,5,6-tabramathyl-1,4-phanylane)bis methylethyl)- (CA IROSK HAME)

CAS Registry Number 669072-60-0 CAMCUS

Chemical or Trade Name 9H-Carbanola, 9-sthyl-5-mathyl-6-[2,2',5,3',4',5,5',6,6''-monafile: 5'-(pentafluorophanyl)[1,1':3',1''-tauphanyl]-4-yl]- (SCI) (CA DNOM) NAMON

$$\operatorname{Et} \qquad \operatorname{F} \qquad$$

Chemical or Trade Name 9H-Carbarole, 3.6-bis(3.5-dimethyl[1.1'-b dimethylethyl) - (CA INDEX NAME)

OS.CITING PEF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

Pure Cheep Blase Light-Emitting Diodes from Alternating Flace revCarbazzole Copo-lineation (Inc.) To the Marie Li, Yuning, Ding, Jamfu, Day, Michael Liu, Jamps, Tao, Ye, (Tibrio, Marie; Li, Yuning, Ding, Jamfu, Day, Michael Resigned-Copocine's Source Institute for Microdividual Solence and Institute for Chemical Process and Environmental Control of the Committee of the Com

erial Technology, National Research Council of Canada, Ottawa, ON, K1A ORE, Can cules (2004), 37(7), 2442-2449 CODEN: MAMOEX; ISSN: 0024-9297

CAS Registry Number 885114-70-9 CAPLUS

Chemical or Trade Name
98-Carbarole, 3.6-bis(1.3.2-dioxaborolan-2-yl)-9-octyl-, polymer with
2.7-dibrono-9.9-dioctyl-98-fluorans (CA DRUEX NAME)

CPH 605114-69-6 CNF C24 H31 B2 N CA

CAS Registry Number 685114-74-3 CAPLUS

Chemical or Trade Name 98-04 (1.5,2-dioxaborolan-2-yk)-9-octyl-, polymer with 7,7-dioxaborolan-2,9,9,9-7-dioxaborolan-2-yk)-9-8-05-08-05-08-05-08-05-08-05-08-05-08-05-08-05-08-05-08-05-08-08-08-08-08-08-08-08-08-08-08-08

CRN 605114-69-6 CNO C24 H31 B2 N CA

dhodhwarior (M. Change of Mary Congains and Mary Congains of Mary Congains of Mary Congains (M. Change of Mary Congains Source Laboratory of Organic Synthesis, Department of Chemistry, Louvain, Selg.

of
A conjugated polymer consisting of carbacole and quinocaline units is ignificated in a high location yeld (80%). The polymer possesses a high mol, weight (appn. 22 kBa) and is completely soluble in con-When the polymer is used as an entiting layer in a multilayer of extrinimination (in), lawing, it emits aclose light of 464 ms and within a current efficiency of approxi2 cd4.

CAS Registry Number 693228-04-5 CAULUS

Chemical or Teads Home
Ethensdions, l.1=[9-(2-sbhylheayl)-98-cachanols-3,8-diyk|bis[2-phenyl-polyace with [1,1'-bihynyl]-5,3',4,4'-takumnins (ACT) (CA INDEX SAGE)

CRN 693220-03-4 CNF C36 H33 N C4

CPR 91-95-2 CNF CLS 814 N4

CAS Registry Number 693228-02-3 CAPLUS

CAS Registry Number 693228-03-4 CAPLUS

Chemical or Teads Rome
Ethemedions, 1,1'=[9*(2*sthylhesyl)=9H*cachemols=3,6*diyl|bis|2*phesyl*
(9CI) (CA EMBES 398CE)

CAS Registry Number 685114-76-5 CARLUS

Chamical or Toads Here Poly((9-octyl-98-catherols-3,6-diyl)(9,9,9',9'-balasochyl(2,2'-bi-98-fiborans)-2,7'-diyl)((95)) (CA INEX NACE)

CAS Registry Number 685114-78-7 CAPLUS

Chemical or Trade Home 98-Gachanola, 3,6-bir(1,3,2-dioxaborolan-2-yl)-9-octyl-, polymar with 7,7"-dibroso-9,9,9',9',9'',9''-haxaoctyl-2,2':?'',2''-tar-98-Eluorana (CA INGEN NAME)

CNS 685114-69-6 CNS C24 R31 R2 R C4

Chemical or Trads Name.

Poly[[9-ecty]-98-embharols-3,6-diyl][9,9,9',9',9'',9''hazaactyl[2,2':7].2''-lse-98-fluoress[-7,7''-diyl]][GCT] (CA INDEX NAME)

PAGE 1-A

OB.CITING REP COUNT: 02 THERE ARE 02 CAPCUS PECODOS THAT CITE THIS PECONO (03 CITINGS)

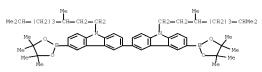
PAGE 1-B

L38 ANSWER 20 OF 154 CAPLUS COP-Accession Number 2004;174889 CAPLUS <u>Fulbert</u> Document Number 142,29538 Title of Cohaback computs, are described by the general formula in (n 2 2) in which exch cachaback and may be juriplashfuled with 21 substituers. The cachaback computs, may be combined with light-emitting computs, by a price of the cachaback compound combinations are also described.

emities computs, capable of accepting every from the cachaback compound combinations are also described. CAS Pagistry Number 628336-90-3 CAPGUS Chemical or Tesis Rome 3.3'(6'.3''-Ter-98-carbarole, 9.9'.9''-twicetyl- (9CT) (CA INDEX NAME)

CAS Registry Number 714972-52-0 CAPCUS

 $\begin{array}{lll} \textbf{Chinical or Trade Name} \\ \textbf{3.8'-8i-9i!-orthogale.} & \textbf{9.9'-bis(3.2-dinethyloctyl)-6.6'-bis(4.4.5.5-bissenthyl-1.3.2-diozeborolan-2-yl)- & \text{CA INDEX NAMES} \\ \end{array}$

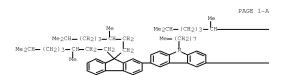


CAS Pagistry Number 746651-55-0 CAPGUS

Chemical or Trafe Rene 3.3-Bi-9B-oschemole, 9.9'-diodkyl-6.6'-bis(4.4.5.5-behrenethyl-1.3.2-dioasborolan-2-yl)- (CA INGEX RRCE)

CAS Registry Number 214929-51-7 CAPCUS

Chemical or Trade Hame 930-Carbonole, 3.6-bis[9.9-bis[3.7-dimethylockyl]=90-fluoren=2-yl[=9-octyl=(CA.INGEX.NAME)]



PAGE 1-B

CAS Registry Number 746651-60-5 CAPCUS

Chemical or Trade Name 3,3'-8L-9H-carbanols, 6,6'-biz(9,9-dioctyl-9H-fiboren-2-yl)-9,9'-dioctyl-(CA INEES, NAME)

PAGE 1-B

OF 154 CAPLUS COPYRIGHT 2011 ACS on STN

ii (2005), 4(1), 24 (No. IPCOM000021047D), 18 Dec 2005 CODEN: LIPOBX; ISSN: 1533-0001

ge English information				
PATENT NO.	KND	DATE	APPLICATION NO.	DATE
	IP 21047D	20031216	IP 2003-21047D	20031218

CAS Registry Number 775354-97-7 CAPCUS

Chemical or Trade Rome 3,3'-Bi-9B-carbornia, 9,9'-didacyl-6,6'-bis(4,4,5,5-bircamethyl-1,3,2-dicamborolan-2-yl)- (CA INDEX NAME)

CAS Registry Number 775355-01-6 CAPGUS

Christal or Trade Rene 3,3'-Bi-9B-carbarols, 9,9'-didscyl-6,6'-biz(4,4,5,5-tstramsthyl-1,3,2-dicambrolan-2-yll--polymar-with 2-(3,5-dibocoophenyl-5-yhenyl-1,3,4-casdianola-and 1,3,5-tstbocoophenyl-6(21) (CA INGEN RMGI

CES 775354-97-7 CEG C56 878 82 82 04

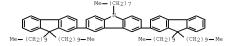
CNO C6 H3 Dc3



CAS Registry Number

CAS Registry Number 714972-56-2 CAPLUS

CAS Registry Number 726169-81-9 CASCUS



L3S ANSWER 31 OF 154 CAPLUS COPPRISHT 2011 ACS on STN ACCOUNTY OF THE STATE OF THE The Spillmets and characterisation of new, collable-polysomethines bearing fluorens and catabasis units in the backbone and collability-improving movies in the side group Authorities in the collaboration of the collabor

School of Environmental Science and Engineering, Department of Chemistry, Center by Integrated Molecular Systems, BK21 Program, Division of Molecular and Life Sciences and Polymer Researc University of Sciences and Technology, Pohang, 700-794, S. Korea

CAS Pagistry Number 675603-07-9 CAPLUS

Chemical or Trade Name 98-Carbarole-7,6-dicarbaseldelyde, 9-(2-albylheayl)-, polymer with 98-carbarole-3,6-dismins (9CC) (CA INCEX NAME)

CRN 169051-20-1 CNF C28 H25 N O2

CM 2 CMS 06-71-5 CMF C12 H11 N3

CAS Registry Number 675603-88-0 CAPLUS

CAS Registry Number 675603-89-1 CAPLUS

Chemical or Trade Rome 98-Fluorens-2,7-dicarbosaldshyds, 9,9-dibotyl-, polymer with 9-(2-sthylhexyl)-98-carborols-5,6-diamins (9CT) (CA INDEX NAME)

CRN 675603-82-4 CNP CR0 H27 N3

CAS Registry Number 675603-90-4 CAPLUS

Chemical or Trade Name
Poly||9-(2-shhylhasyl)-98-cambanole-3,6-diyl|mitrilomethylidyme(9,9-dibbtyl-98-fluoreme-2,?-diyl)mthylidymenitrilo| (SCI) (CA INGEX NAME)

CAS Registry Number 675603-91-5 CAPLUS

Chemical or Trads Rams 9H-Carbarole-3, 6-dicarbosaldahyde, 9-(2-shlylhesyl)-, polymer with 9-(2-shlylhesyl)-9M-carbarole-3,6-dismins (SCI) (CA INDEX NAME)

CPH 169051-20-1 CMF C22 H25 N D2

Chemical or Trada Rena Poly(|9-12-ebbythenykl-98-carberola-3.6-diyl|mitrilonethylidyes|9-12-ebbyhenykl-98-carberola-3.6-diyl|methylidyesnikrilo| (901) (OA INSEX

CAS Registry Number 675603-97-1 CAPEUS

Chemical or Trade Rams 98-Carbarole-1.5-dicarbaseldehyde. 9-(2-ethylhesyl)-, polymer with 2,2'-di-2-forasyl[1,1'-biphanyl|-4,4'-diamins (SCI) (CA INDEX NAME)

CRS 190193-17-0 CNF C20 R16 N2 C2

CAS Registry Number 675603-99-3 CAPLUS

Chanical or Trade Rame
Polyg [3-(2-sthylhasyl-38-carbanols-5,6-diyl)msthylidymsnitrito [2,2'-di-2-furanyl [1,3'-biphanyl]-4,4'-diyl)mitritomsthylidyns[(9CT) (CA DEEEX MANS)

CAS Registry Number 675604-04-3 CAPLUS

CEDR 675603-84-6 CNG C24 H24 N2 C2 S2

CN 2 CRM 169051-20-L CNF C22 H25 N D2

CAS Registry Number 675604-05-4 CAPLUS

CAS Registry Number 675603-81-3 CAPLUS

CAS Registry Number 675603-82-4 CAPLUS

Chemical or Trade Name 98-Carbarola-3, 6-diamine, 9-(2-ethylhexyl)- (CA INDEX NAME)

OB.CITING REP COUNT: 23 THERE ARE 23 CAPCUS RECORDS THAT CITE THIS PECOND (23 CITINGS)

The Assampt 20 of 16 Culture 1 20 THERE ARE 30 CANNOT 1 20 THERE ARE 30 CANNOT 1 20 CANNOT

CAS Registry Number 1226495-72-2 CAPCUS

Chemical or Trade Name INDEX NAME NOT YET ASSIGNED

CAS Registry Number 675601-08-7 CAFGUS

Chinical or Trada Nama 98-Carbanole-3.5-dioschamaldehyde, 9-(2-shlylbenyi)-, polymer with 4,4-(3-11-11-0-can-9-yidasalbis|bancamanine| (9C1) (CA INGEN NAME)

CRS 15499-04-0 CRS 15499-04-0

CAS Registry Number 675604-09-0 CAPLUS

Chunical or Trade Name
Poly[9-[0.4shtyhlany1]-88-carbarols-3,6-diy]|nabhylidymanibrilo-1,4phenjians-38-fluoran-9-ylidans-1,1-phenylamanibrilosethylidyns| (SCI) (CA
INDEX_NAME)

CAS Registry Number 644979-46-4 CAFGUS

Chanical or Trada Rans 9,3'16',9''-Ter-96-carbaro

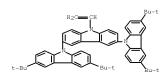
CAS Registry Number 644979-50-0 CAPLUS

Chemical or Trade R 9,3':6',9''-Ter-98--RANGE

CAS Registry Number 644979-60-2 CAPLUS

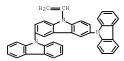
Consist of York Anne
9.20(7.9)-(n-c-W-conhords, 3,3**),6.0**(alsohisil,i-dimethylabyi)-9*shappi, homophymes (9CD) (CA INGEX NMCE)
1

CER 644979-55-5 CMF C54 H57 N3



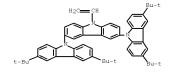
CAS Registry Number 644979-40-6 CAPLUS

Chemical or Trade Name 9,3':6',9''-Ter-9H-ca



CAS Registry Number 644979-55-5 CASKUS

Chemical or Trade Name 9.3':6'.9''-Ter-9H-carbonole. 3.3 sthenyl- (9CI) (CA INDEX RAME)



OS.CITIMO REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITIMOS)

$$\label{eq:problem} \begin{split} & \text{Physics.} \quad 4.4^{-1}(3^{-1}(2^{-1}\text{subphase})) - 36^{-1}\text{submatice}, \\ & \text{Submatice}(2)(36^{-1}\text{submatice}), \\ & \text{Submatice}(2)(36^{-1}\text{submatice}), \\ & \text{Submatice}(2)(26^{-1}\text{submatice}), \\ & \text{Submatice}(2)(26^{-1}\text{submatice}), \\ & \text{Submatice}(26^{-1}\text{submatice}), \\ & \text{Submatice}(26^{-1}\text$$

CPH 484014-00-4 CMF C36 H37 N C0

Charical or ready Nava
Line (1-1) - Nava Line (1-1) - State (1-1) - Sta

CPR 444014-88-4 CNF C36 H37 N C8

CAS Registry Number 458556-60-0 CAPLUS

L38 ANSWER 33 OF 154 CAPLUS CO Accession Number 2004 54780 CAPLUS <u>FIG-964</u> Document Number 140-254187 Title

we sport the gold and self-children and population of their new deviation of the R. P. P. H. containing of disease decided to be amporting particum to 1.5 stability instancing and decided to the contract of the Contract of

CAS Registry Number 444015-02-5 CASLUS

CAS Registry Number 450556-50-6 CAPLUS

Chemical or Yeafs Name $\begin{aligned} &\text{Foliy}\left[(s+2 + \text{ship}) \ln syl) + 2 + \text{carkanols} - 2, 6 - \text{diyl} \right] - 1, 2 + \text{shipmediyl} - 1, 4 + \\ &\text{plumplementy}\left[(s+2 + \text{ship}) \ln syl) + 2 + \text{carkanols} + 2, 6 - \text{diyl} \right] - 1, 2 + \text{shipmediyl} - 1, 4 + \\ &\text{plumplementy}\left[(s+2 + \text{shipmediyl}) + (s+2 + \text{shipmediyl}) + (s+$

PAGE 1-A

PAGE 1-B

PAGE 1-B

CAS Pagistry Number 458556-57-5 CAPCUS

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CAS Registry Number 677792-97-7 CAMCUS

Chemical or Trade Hene 98-Carbaxole, 9-athanyl-3,6-disathyl-, Yosopolymar (MCI) (CA INDEX NAME)

TING PEF COUNT: 10 THEFE ARE 10 CAPLUS PECORDS THAT CITE THIS RECORD (10 CITIMS)

Cao, Yong; Yang, Renglang; Yang, Wei Hasignes/Corposale Source

Chinese information	KIND DATE APPLICATION NO. DATE A 20030100 CM 2002-134210 20020520				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
CH 1309400	A	20030108	CN 2002-134210	20020520	
CN 100558766	С	20091111			
CN 101343352	А	20090114	CN 2008-10210612	20020620	
CN 101343352	В	20110817			
CN 101885836	A	20101117	CN 2010-10244975	20020620	
CN 101885836	В	20110617			
CN 101885837	A	20101117	CN 2010-10244988	20020620	

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31024-37-3-1. CARUSS

Chesical or Trads News 34-Cartabayla-3.6-bis(4.4.5.5-teismethyl-1.2.2-distribution). 3-(2-tely)basyll-3.6-bis(4.4.5.5-teismethyl-1.2.2-distribution). (26.1500). Photocontained Larols (26.1500). Phot

CRN 4L0955-07-L CNP C32 H47 B2 N C4

CMA. CE NS B45 NS B9 CMM E2554-75-0 CM

CAS Registry Number 591249-47-7 CAPLUS

Chesical or Trade Nova SH-Carbarola, 3.6-dibrem-9-(2-shylbasyl)-, polymer with 4.7-dibrem-2.1.3-bennoslenadianols and 3-(2-bbylbasyl)-3.6-bisl4.4.5.5-bismathyl-1.3.2-diosaborolam-2-yl)-98-carbanola (5-1) (6A NSMC) NSMC)

CRN 441955-07-L CNP C32 H47 B2 N OA

CRN 173063-52-0 CNP CR0 HR3 Be2 N

CMS 62357-75-0 CMS 62357-75-0

CAS Registry Number 628336-95-8 CAPLUS

Chemical or Trade Rene SB-Carbanole, 3-hasyl-3,6-bix(4,4,5,5-telemethyl-1,3,2-dioxaboroles-2-yl)-(CA INDEX RMS)

CAS Registry Number 440955-07-1 CAPLUS

OS.CITING PEF COUNT: 4 THEPE ADE 4 CAPLUS PECCHOS THAT CITE THIS PECCHO

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CAS Registry Number 620611-77-0 CAMAUS

Chesical or Trade Rose 9.3':6'.9''=Ter-9H-carberole, 9'-mathyl- (9CI) (CA DROSE RAME)

OS.CITING REF COUNT: 9 THERE ARE 9 CAPCUS PECORDS THAT CITE THIS PECORD (10 CITINGS)

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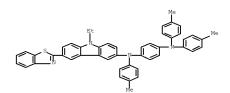
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CAS Requetry Number 470556-63-7 CAPCUS

Chemical or Trade Name
Hithmore, 1-(6-bennoy1-9-ethy1-90-carbonol-3-y1)-, 1-(0-acetylonime) (CA
TROK NAME)

CAS Registry Number 890554-09-2 CARLIS

Chemical or Trade Name 1,2-Octanodions, 1-(6-benroyl-9-sthyl-98-carbarol-3-yl 2-(O-acetyloxine) (CA INGEC NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPCUS RECORDS TRAT CITE THIS RECORD (1 CITINGS)

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CAS Registry Number 600527-67-9 CAPLUS

Checkel or Trade Name
[9.3':6'.9'-Ter-98-cochanole]-3.3''.8.6''-betronire.
3'-athyl-3,3',3''-betrakis(3-asthylphenyl)-3,3'',3''-betraphenyl-(2C) (CA IRREX NAME)

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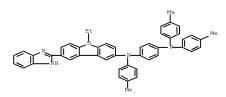
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CAS Pagistry Number 556026-27-0 CAPLUS

Chemical or Trada Rama 1, t-Ramarandiamins, Ni-[6-(12-benzinidarol-2-yt]-9-athyt-9H-carbarol-3-yt]-Ni, Ni, Ni-bris(4-methytybenyt)- (CA INCEX NAME)



Chemical or Trade Rame $1.4 - Benzemodianine, \ N1 - [6-[5-(1.1-dimethylethyl)-2-benzonamolyl]-3-ethyl-38-oschamol-3-yl|-81, N4.N4-trip(4-methylphenyl)- (CA INDEX NAME)$

CAS Registry Number SSecre-29-0 CAPLUS

PAGE 2-A

PAGE 1-A

CAS Pagistry Number 131956-71-3 CAPLUS

CAS Registry Number 144726-94-3 CAPCUS

OS.CITING PEF COUNT: 45 THEFE ARE 45 CAPLUS PECORDS THAT CITE THIS PECORD (46 CITINGS)

Japanese Information					
PATENT NO.	KND	DATE	APPLICATION NO.	DATE	
MD 500302050	Al	20030619	WO 2002-JP12021	20021206	
AU 2002354442	Al	20030623	AU 2002-354442	20021206	

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The Invention refers to an organic electrolluminescent material such as 4(1-12,2-dphonyl-hyth-biphonyl-2phonyl-hytholyclase)
CAS Registry Number
SA663-65-3 CARSUS

Chemical or Trade Name 3H-Carbanola-3-carbonale-byde, 9-athyl-6-[2-[4'-[2-(9-athyl-9H-carbanol-3-yishhay]|1], 2'-btphayd[-4-yi]athayl[- (CA INDEX NAME)

PAGE 1-B

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS TRAT CITE THIS RECORD (1 CITINGS)

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20030099838	AL	20030529	US 2002-271318	20021014
US 6800381	B2	20041005		
XR 2003034659	A	20030509	ER 2001-66330	20011026
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Chemical or Trade Name 2, 4-Cyclopenhadis-1-one, 3,3'-(9,9-diheayl-98-fluorene-2,7-diyl)bis[2,4,5-bripheayl-,polymer with 5,6-disthymyl-9-heayl-M-combanole (9CI) (CA INDEX NAME)

CRN 156972-60-0 CNF CES HEL N

Christel or Trade Home 2,4-Cyclopenhadian-1-ons, 5,3'-(9,9-dihazyi-98-filorens-2,7-diyi|bix|2,4,5-triphenyi-polymer with 9-hoxyi-3,6-bix|Chrimethylsity|sthynyi|-98-carborole (GCI) (CA INDEX NAME)

CRO 532384-92-2 CRO C71 R62 O2

CN 2 CRN 156978-67-7

CAS Registry Number 532385-07-2 CASKUS

Chemical or Trade Reme
2.4-Cyclopenhadian-l-one. 3.3-[9.9-dihemyl-98-fluorene-2
phanylams|bix|2.4.5-kriphanyl-, polymer with
3.6-dishpyn-2-hamyl-3-makpol. (MCI) (CAINDEX NAME)

CRM 532304-94-4 CMF C83 H70 G2

CM 2 CRM 156972-60-0 CMP C22 H21 N

OB.CITING REP COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

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CAS Registry Number 569677-21-0 CAMCUS

Chemical or Trade Name 9H-Carbayll-3,6-bis(4,4,5,5-ketcomethyl-1,3,2-dicamborola-2-yll-). Nonepolymer (SCI) (CA INDEX NAME)

CRH 4L0955-07-1 CMF CRE H47 B2 N C4

CAS Registry Number 569677-23-2 CAPLUS

Chantcal or Trads Nama 98-Garbanole, 9-(2-ab)y(basy(1-3,5-bas(4,4,5,5-babranet)y(5-1,3,2-dicamborolan-2-y1)=, polymer with dibromounthracana (SCI) (CA DREEN NAME)

CN 2 CFR 30193-30-5 CNF CL4 R0 Re2 CCI IDS

2 (D1_Br)

CAS Registry Number 569677-25-4 CAPLUS

Chimical or Trade Name 98-Carbanole, 2-(2-shb)thexyl)-3,6-bix(4,4,5,5-bixcanethyk-1,3,2-diosaborolan-2-yl)-, polymer with dibromothlopbene (SCI) (CA DEEX NAMS) CX [

CER 448955-87-1 CRF C32 H47 B2 N C4

CM 8 CDM 152521-85-8 CMM C4 M2 Be2 5 CCI IDS $\sqrt{2}$

2 (D1-Br)

CAS Registry Number 570394-31-9 CAPLUS

Chemical or Trade Name
98 Carhamola, 9-12-ethylbasyll-3, 6-bis(4,4,5,5-tetramethyl-1,3,2diomoborolan-2-yll-, polymer with 4,7-dibcomo-2,1,3-bennothiadiarola (9CI)
(CA DOSK NAMS)

CRN 448955-87-L CNP C32 H47 B2 N CA

CAS Requetry Number 570394-33-1 CAPLUS

Chemical or Trade Name 98-Caribana, 9-(2-athythaxy1)-3,6-bix(4,4,5,5-tetramethy1-1,3,2-dioanborolen-2-y11-, polymer with 4,7-dibcomo-2,1,3-benrosalamediarole (2c1) (CA INDEX NAME)

CRN 440955-07-L CNF C32 H47 B2 N C4

CAS Registry Number 570394-35-3 CARLUS

Chimical or Trade News 98-Carbythaxyi)-3,6-bix(4,4,5,5-tabramathyi-1,3,2-dicamboral-2-yll-, polymer with 4,7-bix(5-brono-2-thianyi)-2,1,3-benebhiadiarole (9CI) (CA EMBER NAME)

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Chesical or Trads Nova 88-Carbarole, 3.6-differen-9-(2-shyllbayl)-, polymer with 4.7-differen-9-(1.3-lehenobihadismale and 3-(2-shyllanyl)-3.6-bis(4.4,5.5-istramshyl-1,3.2-dionaborolan-2-yl)-98-carbanole (8-C) (6A 1980

CRN 448955-87-1 CMP C32 H47 B2 N C4

CAS Registry Number 591249-45-5 CAPLUS

Chemical or Twefs Rens 98-(2-sthylbrayl)=, polymer with 98-Carbarola, 3.6-dibrons-9-(2-sthylbrayl)=, polymer with 2.5-dibrons-bringhams and 9-(2-sthylbrayl)=3.6-bis(4,4,5,5-tatcomethyl), 3.7-dioxaborolam-2-yl-38-carbarola (SCI) (CA INGEX NAME)

CN 1 CR9 440955-07-1 CNO C32 R47 B2 N O4

CN 2 CRN 173063-52-0 CNO C20 R23 Bc2 N

CAS Registry Number 591249-46-6 CAPLUS

Chemical or Trade Rams 98-Carbanola, 3,6-dibrono-9-(2-athylhazyl)-, polymar with 9,18-dibronounthracens and 9-(2-athylhazyl-3,6-blate,1,5,5-latramshyl-1,3-disonounthracens-2-yl-19-decembers (Edl. (CA TRADE NAME)

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CNF C32 847 82 8 Q4

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281-Carbanola, J.4-Cibiceno-2-(2-Eby)
281-Carbanola, J.5-Cibiceno-2-(2-Eby)
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CAS Pagistry Number 440955-07-1 CAPLUS

Chemical or Trade Name 98-Carbhylheayl)=3.6-bix(4,4,5,5-tstcamethyl=1,3,2-dioxaborolam=2-yl)= (CA INDEX NAME)

OG.CITING REP COUNT: 2 THERE ARE 2 CAPLUS RECORDS TRAT CITE THIS RECORD (2 CITINGS)

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or Orbigania Scalar, Center for Molecular Science, Institute of Chemister, Chimese Academy
for Advanced Technologies (2008), 14 p. 8), 309-308 COCEH: PACTES, ISSN: 1012-7147

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CAS Registry Number 265126-14-5 CAPLUS

Chamical or Trads Name
Poly[]9-(2-shylhasyl)-98-(ashbanole-7,6-diyl]-1,2-shhenediyl-1,4-phenylene
1,2-shhenediyl| 9611 (CA INDEX NAME)

CAS Registry Number 265126-18-9 CAPLUS

Chamical or Trads Name
Poly||9-(2-athythasyl)-SH-carbenols-3,6-diyl|-1,2-athenediyl-9,10enthcocenediyl-1,2-athenediyl| (9CI) (CA INDEX NAME)

CAS Registry Number 562099-34-7 CAMCUS

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1.4-bit/olly-contry/lbanessas (SCI) (CA DEEX NAME)

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Chimical or Trade Home 98-Carbonoles, 9-(2-ethylheayl)-, polymer with 9,10-bis(deloronethyl)anthraceme (9CT) (CA INDEX NAME)

CRN 169051-80-1 CNF C22 H25 N G2

CN 2 CFSR 10387-13-0 CNSF C16 H12 C12



OS.CITIMO REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITIMOS)

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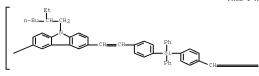
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CAS Registry Number 189575-99-3 CAPLUS

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Poly(19-(2-sbythazyl)-80-cachemols-3,6-diyl)-1,2-sbhanediyl-1,4phaykanediybayksilylams-1,4-phanykan-1,2-sbhanediyl) (9CI) (CA INDEX
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PAGE 1-A

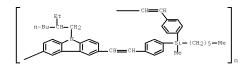


PAGE 1-B



CAS Registry Number 189576-01-0 CAPLUS

Chemical or Trade Name
Poly([9-(2-athythaxyl]-48-carhamola-3,6-diyl]-1,2-athanadiyl-1,4-phanylana(haxylnathylxilylana)-1,4-phanylana-1,2-athanadiyl] (CA INCEX NAME)



OS.CITING PEF COUNT: 3 THERE ARE 3 CAPLUS RECORDS TRAT CITE THIS RECORD (3 CITINGS)

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CAS Registry Number 265126-14-5 CAPLUS

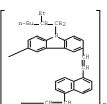
Chemical or Trads Rams
Poly||9-(2-sthylhamyl)-50-carbamole-3,6-diyl|-1,2-sthemadiyl-1,4-phanylana-1,2-sthemadiyl| 921| (CA INDEX NACE)

CAS Registry Number 265126-15-6 CAPLUS

Chamical or Trads Name Poly[$9 \cdot (2-athythasy1) \cdot SH-carbotols -3, 6-diy1[-1, 2-athanadiy1[1, 1'-bipheny1]-4, 4'-diy1-1, 2-athanadiy1[(SCI) (CA IROEX NAME)]$

CAS Registry Number 265126-16-7 CAPLUS

Chemical or Trade Name Poly||9-(2-shhylhany1)-MH-carbanols-3,6-diyl|-1,2-shhamadiyl-1,5-



CAS Pagistry Number 265126-17-0 CAPLUS

Chinical or Trads Rens Poly[|9-(2-elbylhesyl]-88-darkerole-3,6-diyl|-1,2-elbenediyl-1,4-nsybthalendiyl-1,2-elbenediyl| (SCI) (Ch INDEX SMEE)

CAS Registry Number 265126-18-9 CAPLUS

$$\label{eq:Chemical or Trade Rene} \begin{split} & \text{Poly}([3^{-}(2^{-}\text{ethylhenyl}) - 30^{-}\text{carbonole} - 3, 6^{-}\text{diyl}] - 1, 2^{-}\text{ethenediyl} - 9, 10^{-}\text{anthracenediyl} - 1, 2^{-}\text{ethenediyl} | (9CI) - (CA INSEX NAME) \end{split}$$

CAS Registry Number 265126-19-0 CAPCUS

Chesical or Trads Name Poly||9-(2-sh)ythasyl)-98-carbarols-3,6-diyl|-1,2-sh)emediyl(2,5-dimathyt-1,4-phesylene)-1,2-sh)emediyl||(9CI)||(Ch INREX NAME)|

OS.CITING PEF COUNT: 2 THEPE APE 2 CAPCUS PECODOS TRAT CITE THIS PECODO (2 CITINGS)

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PATENT NO.	KND	DATE	APPLICATION NO.	DATE
JP 2003133075	A	20030509	JP 2002-214074	20120724

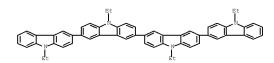
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CAS Registry Number 144446-87-7 CAPLUS

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Chemical or Trade Name 3,3::6:,3::-Quater-9H-carbanols, 9,9:,9::,9::-tatrasthyl- (CA INDEX NAME)



OS.CITING REP COUNT: 3 THERE ARE 3 CAPCUS PROORDS THAT CITE THIS PROORD (3 CITEMES)

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	WD 2003012005	AL	20030213	MD 2002-IT504	20020730
	IT 2001BM047L	AL	20030203	IT 2001-3M471	20010802
	AU 2002326149	AL	20030217	AU 2002-326149	20020730
	RP 1412451	AL	20040429	EP 2002-760550	20020730
	TIS 20040236790	81	20041202	TS 2004-465470	20040524

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CAS Pagistry Number 109575-99-3 CAPGUS

Chunt cal. or Trads Ress Poly[] [8 [-2 shyllenyl] - 88-gardosols-2, 6-siy] -1, 2-shkenediyi-1, 4-pherylane(dipherylallylane)-1, 4-pherylane-1, 2-shkerediyi| (9CI) (CA IRUEX RAMS)

PAGE 1-A



PAGE 1-B

LOS ANDRESS OF 154 CAPUS COPPRIORITZON ACS ON STIN 2003/16 CARUN SAIGNED COMMON ACS ON STIN 2003/16 CARUN SAIGNESS ON SAIGNES

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2003007466	A	20030110	JP 2001-104004	20010619
	JP 4457529	B2	20100428		
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CAS Registry Number 453297-90-1 CAPLUS

Chimical of Trade Rems 98-Carbanols, 9-msthyl-7,6-di-(1E)-1-propanyl-, homopolymar (9CI) (CA INDEX NAME)

CEOR 487021-61-4

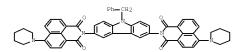
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CAS Registry Number 342374-27-0 CAPCUS



CAS Registry Number 527678-50-8 CAPLUS

Chemical or Trade Name 1H-Bangle | isopainaline-1, 3(2H)-diome, 2,2-(9-bibyl-9W-orbarole-3, 8-diyl|bis|8-(1-piperidinyl)- (CA

CAS Registry Number 527678-51-9 CAPLUS

Chemical or Trade Name 18-Benn[de]isoquimoline-1,3(28)-diome, 2,2'-(9-shtyl-98-carbanols-3,6-diyl)bis[6-

OG.CITING REP COUNT: 57 THERE ARE 57 CAPCUS PECONOS THAT CITE THIS PECONO (57 CITINGS)

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LIS ANSWER 51 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN
Accombination Control
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organio lighti-emitting diodes with cabasole-based small molecules for J-Hoon; Woo, Hyung-Suk; Kim, Tae-Wan; Park, Jong-Wook mol/Copcade Source outle R and D Center, Samsung SDI, Youngin City, 449-402, S. Koea

Optical Marienials (Amsterdam, Netherlands) (2008), 21 (1-3), 225-239 CODEN: OMATET; ISSN: 0825-3467 If Type

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CAS Registry Number 332065-62-6 CAPLUS

Chesical or Trads Name 1.4-Penzandisctionitrie, 2,5-bis(pentylosy)-, polymer with 9-(P-aridopopy)-194-cachezole-3,6-disarbozaldehyde (MCT) (CA IMDEX NAME)

CRF C20 H28 N2 C2

CH2-CN 0- (CH2) 4-Me Me-(CH2)4-0

OB.CITING MEF COUNT: 7 THESE ARE ? CAPCUS PECONDS THAT CITE THIS SECOND (? CITENS)

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CAS Pagistry Number 244036-31-5 CAPLUS

Chemical or Trade Rame
Poly([9-(2-shbythsayl)-98-carbanola-3, 6-diyl)-1, 3, 4-oxadizmola-2, 5-diyl[2.5-shiychsayl]-1, 4-phenylame[-1, 3, 4-oxadizmola-2, 5-diyl] (SCI)
(CA INCOX NAME)

OS.CITING PEF COUNT: 17 THERE ARE 17 CAPLUS SECONDS THAT CITE THIS DECOND (17 CITINGS)

Epitation symmetria and uninecennes Study of the First «Conjugated Timitizand Alternating Copolyment for Bite Light Emitting Dodge at the Very Low Operating Voltage tention. Hum Steel, Kim, Heam Kiny, Chen, Ein Heer, Kim, Ilyanay Hywan; Lee, J-Hoos analyses/Copous Source

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loculus, (2002), 35(25), 9282-9288 CODEN: MAMOBX; ISSN: 0024-9297

Chemical or Trade Name
Poly[]9-(2-ethylhasyl)-98-cambarols-3,6-diyl]-1,2-ethemediyl-1,4phanylams(diphanylstannylsms)-1,4-phanylsms-1,2-ethansdiyl] (9CI) (CA
INDEX NAME)

PAGE 1-B



OB.CITING REP COUNT: 13 THERE ARE 13 CAPCUS RECORDS THAT CITE THIS PECOND (19 CITINGS)

LSS ANSWER 54 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2002/26106 CAPLUS Figli-sed 128:50165

Chunical or Trade Rame
Polys [9-(2-thylhenyl)-80-cacherole-3.6-diyl]-1.2-thenediyl-1.4naphthalamadiyl-1.2-thanadiyl [SCI] (CA INDEX SMES)

CAS Registry Number 404696-65-3 CAPLUS

Chunical or Trads Runs
Phosphonium | 2.6-maphthalanediythis|mathylane||bis||triphanyl-, dibronids,
polyses with 9-[2-sibytheayl]-98-ostborols-3,6-dioschozaldebyde (SCI) (CA
RUND NANS)

electrolumin 496 nm, whic 750 nm.

CAS Registry Number 265126-17-8 CAPLUS

CEN 169051-20-1 CNG C22 H25 N G2

CRR 25075-8L-4 CNF C40 R40 P2 . 2 Re

 $\begin{array}{ll} \text{Chemical or Twele News} \\ \text{Foly[]} = \{2 \text{-sthylheayl}\} = 30 \text{-carbevols} = 3, 6 \text{-diyl}] = 1, 2 \text{-sthenediyl} = 2, 6 \text{-naphthalerediyl} = 1, 2 \text{-sthenediyl} = 2, 6 \text{-naphthalerediyl} = 1, 2 \text{-sthenediyl} = 2, 6 \text{-naphthalerediyl} = 2, 6 \text{-nap$

CAS Registry Number 404696-67-5 CAPLUS

Chemical or Treds New Phosphotus, [1.4-maphthalanediyibizimathylana]|biz|triphanyi-, dibromids, polymer with 9-(2-milyDheayl)-98-machamole-5,6-dicarboxaldebyde (9CI) (CA TORK NAME)

CER 169051-20-1

CSS 72862-30-7 CNG CL0 H40 P2 . 2 Re Ph3+P-CH2

OS.CITING PEF COUNT: 10 THERE ARE 10 CARCUS RECORDS THAT CITE THIS PRECED (10 CITINGS) - IMERIA 2015 IO CARKSECOND COLOR SECOND C

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CAS Registry Number 470706-07-9 CAPLUS

Chinical or Trada Rans 98-Ostbarol, J.S-dibrono-9-ostyl-, polymer with 98-Ostbarol, J.S-dibrono-9-ostyl-, polymer with 98-ostyl-1, 5-bis(4,4,5,5-bis(4,40),5-bis(4

CAS Pagistry Number 478706-08-0 CAPEUS

Chantesh of Train Beam Analysis, polyme with 4,74x154ccon-thistogic 2,1,74x164ccon-thistogic 2,1,74ccon-thistogic 2,1,74ccon-thistogic

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OS.CITING PEF COUNT: 44 THERE ARE 44 CAPCUS PECORDS THAT CITE THIS RECORD (45 CITINGS)

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Information					
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 20020107405	A1	20020808	US 2001-950576	20011121	
US 6649772	82	20031118			
TW 297038	В	20080521	TW 2001-108449	20010409	

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CAS Registry Number 410547-41-0 CAPLUS

 $\begin{array}{lll} \textbf{Chemical or Trads. Name} & 98\text{-Carbaral-3-axios.} & 6.5^{\circ}-[(9-phasyl-98\text{-carbaral-3},6-diyl)(6.5,2-thiophasediyl)bis[9-sthyl-8.8-diphasyl-(9CI)] & (CA INDEX NAME) \\ \end{array}$

PAGE 1-A

PAGE 1-B

OS.CITING PEF COUNT: 4 THERE ARE 4 CARLUS RECORDS TRAT CITE THIS RECORD (4 CITINES)

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Journal

January

March Crystals (2002), 377, 3740 COIDEN MCLCES), 6391 1058-7255.

CAS Registry Number 265126-14-5 CAPLUS

Chinical or Trade Rens Poly[[3-(2-sthythway1)-88-carberols-3,6-diy1]-1,2-sthenadiy1-1,4-phenylans 1,2-sthenadiy1| (9CI) (CA INCEX NAME)

CAS Registry Number 469353-12-6 CAPLUS

Chunical or Trade Ness
Phosphonic acid, [1,4-2]
Phosphonic acid, [1,4-2

CRN 403610-12-8 CNF CRR HRS N GR S

CRN 4546-04-7 CNF CL6 H28 D6 F2

CAS Registry Number 469353-13-7 CASLUS

Chemical or Trade Name
Phomphonic acid, [1,4-phanylanabin(mathylana)|bin-, talvasthyl amisc,
polyans with 3-(2-shylhanyl)-98-cachanols-5,6-dicachoxaldshyda (9CI) (CA
RHOR NMB)

CER 169051-20-1 CMF C22 H25 N D2

CRN 4546-04-7 CRP CL6 H20 G6 P2

OG.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L38 ANSWER 58 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005-567-625 CAPLUS Fub-hol 137-2017-92 Title

Thomas, K. P., Auto, L., (Auto, T.) and C. (Auto

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CAS Registry Number 468062-27-3 CAPLUS

Chemical or Trade Name 9H-Garlamola-3, f-diamine, N3, N6-bis|4-[5-[4-(1,1-diamin)qiah)qi)phenqli-1, 3, 4-condiamol-2-yi, phenqli-3-mihqi-N5, N6-diphenqli-(CA INGEX NACE)

CAS Registry Number 460062-29-6 CAPLUS

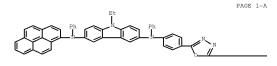
PAGE 1-B

CAS Pagistry Number 460062-30-0 CAPLUS

Chemical or Trade Rams 98-Carbanola-3, 6-diamins, 83-[4-]5-(9,9-dibutyl-98-fluores-2-yk)-1,3,4-oxediamol-2-yk]phonyk]=9-chhyl-86-1-naphthalanyl-83,86-diphonyk= (CA INDEX NOSE)

CAS Registry Number 468062-31-9 CAMEUS

Chemical or Trade Name
3H-Carbarola-3, 6-diamins, N3-|4-|5-(9,9-dibutyl-3H-flooren-2-y1)-1, 3,4oaediarol-2-y1|pheny1|-9-sthy1-N3,N6-dipheny1-N6-1-pyreny1(CA DREEN
NAMES)



PAGE 1-B

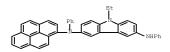


CAS Registry Number 119546-71-3 CAPAUS

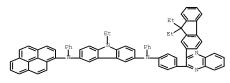
CAS Registry Number 460062-24-0 CAPLUS

CAS Registry Number 460062-25-1 CAPLUS

Chemical or Trade Rose 9H-Carbanole-3,6-diamins, 9-athyl-NJ.N6-diphanyl-NJ-1-pyranyl- (CA INDEX NAME)

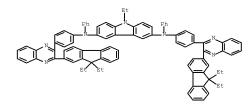


Chanical or Trada Rama 98-Carbonola-3, 8-diamine, NB-[4-[3-(9,9-diabhyl-98-fluoren-2-yk)-2-quinosabinyl|phenyl|-9-shbyl-NB, N8-diphenyl-N8-l-pyrenyl- (CA DIGEX NAME)



CAS Registry Number

Chemical or Trade Rame 98-Carbarole-5, 8-dismins, N3, N6-bis|4-[3-(9,9-dishhyl-38-fluo quinomalin/1phanyl-1-9-shbyl-N5, N6-diphanyl- (CA INSEX NAME)



OS.CITING REP COUNT: 43 THERE ARE 43 CAPLUS RECORDS THAT CITE THIS PROCESS (44 CITINGS)

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Survey and Physics Globox, Part A. Polymer Chemistry, (XKD), 401-4, 2016-2224 COCEN. IP.ACEC, ISBN 066-6243
Lampan Carpoth, Chen, Ch

CAS Registry Number 444014-88-4 CAPLUS

Chemical or Trade Name
Phamol, 4.4"-[[9-(2-sthythamy1)-98-carberols-3,6-diy1|di-2,1-sthemadiy1|bix- [9CI] (CA INDEX NAME)

CAS Registry Number 444015-02-5 CAPLUS

Chaotical or Trade None Phenol. 4.4*=[[9-(2-shhythenyl)-98-carbonols-3,6-diyl]di-2,1-shhenediyl[bix-, 1,1*-discable (CA INDEX RANG)]

CAS Registry Number 458556-57-5 CASSUS

Chesical or Trade Nose
Pherol, 4.4'-[13-(2-shhylhasyl)-FR-carbanols-5,6-dsyl]di-2,1shhmaddyl[bix-, ps]wase with 1.4''-diffuse-5-3''-bix(ciffusecashhyl)1,1's'(-1''-4''-1''-')-qsherspheryl' (96')-(Ch INSEX NOSE)

CDN 464014-88-4 CNG C36 H37 N C2

CM 2 CPM 284030-12-9 CMF C26 H18 F6

CAS Registry Number 458556-58-6 CASKUS

PAGE 1-B

CAS Registry Number 450556-59-7 CAPLUS

Chanical or Trade Bans $\begin{array}{lll} [1,1]^4 + [1,1]^4 + [$

CPS 444014-00-4

CAS Registry Number 450556-60-0 CAPLUS

Chuntcal or Trade Nama
Poly[]= (2-shythays) -88-carkarols -3,6-diyl] -1,2-shhansdiyl-1,4phasylansey(3,2) --- direcse(1,1)-(4',1)-(4'),1'-(-)diyllosy-1,4-phasylans-1,2-shhansdiyl] (SCI) (CA INSEX NAME)

PAGE 1-A

PAGE 1-B

OS.CITING PEF COUNT: 20 THERE ARE 20 CAPCUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

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In this communication, we present our results on the preparation of a novel cetacole-based opportunes, polyt (**2.0), bencothediable (\$3.5 | MoZ. - ethylose) trabslace(#) (**Colfficial), prepared in political involvable dissolution coupling undersity. If Efficient energy transfer from this light-entiting cetacole segments to the bencothediable and counted, and efficient compared light-entition due to the bencothediable and was observed.

CAS Registry Number 448955-87-1 CAPLUS

Chemical or Trade Name
3H-Carbamola, 3-(2-athylhazyl)-5,6-bis(4,4,5,5-tatemethyl-1,3,2dioamborolan-2-yl)- (CR IREEN NAME)

CAS Registry Number 440965-93-9 CAPLUS

Chemical or Trade Name
3H-Carbarola, 3,6-dibero-3+(2-thlylhazyl)-, polymer with
4,7-dibero-3-2,3-bannobhadiamola and
2-(2-thlylhazyl)-3,6-bid(4,4,5)-tatemathyl-1,3,2-diosaborolan-2-yl)-98carbarola (951) (8ch NOME NAME)

CM 2 CDM 173063-52-0 CMF C80 H81 Be8 M

CR 3 CPR 15155-41-6 CRF C6 H2 Br2 H2 B

CAS Registry Number 448955-90-6 CAPLUS

Chemical or Trade Name
98-Garbanole, 3,6-dibrono-9-(2-abhyl)hazyl)-, polymar with
92-Garbylyhazyl-1-5,6-biz(4,4,5,5-takumathyl-1,3,2-dioxaborolam-2-yl)-98cerberole (SCI) (CA INSEX NMMS)

CER 448955-87-1 CMF C32 R47 R2 R OL

CRS 173063-52-0 CRF C20 R23 Re2 N

OS.CITING PEF COUNT: 122 THERE ARE 122 CAPLUS PECORDS THAT CITE THIS SECOND (124 CITINGS)

L38 ANSWER 61 OF 154 CAPLUS COPY Accession Number 2002/422/62 CAPLUS FJERMI Document Number 13714/0062 Title The Uniform Control of Description of Description (Description of Description of Control Description of Description of Control Description of Abdisor in the clock, we accompany perhapsive could be small perhapsive production of the clock, we accompany to produce to acke turnifored potantient of potantient of the clock was accompany to the control of the co CAS Registry Number 433974-48-2 CARLUS Chimical or Trade Ress 98-Cerbarole, 3,6-dishymyl-9-endacyl-, polymar with 1-haptyma (9CI) (CA TREEX RANGE) CRS 433974-36-8 CNS C27 H31 N CR 2 CRS 828-71-7 CRF C7 H12 Me- (CH2) 4- C- CH CAS Registry Number 433974-50-6 CAPLUS Chemical or Trade Hame 99-Carbanole, 3,6-dishhynyi-9-undacyi-, polymar with athynylbanzans (9CI) (CA INDEX JMMS) CER 433974-36-8 CRF CE7 H3L N CRS 536-74-3 CNF CS H6 Ph-CH CAS Registry Number 433974-36-0 CAPLUS Chemical or Trade Name 98-Carbazola, 3,6-diathynyl-9-undacyl- (CA INDEX NAME)

OS.CITING REF COUNT: ?? THERE ARE ?? CAPLUS RECORDS THAT CITE THIS RECORD (?? CITINGS)

CAS Registry Number 444015-02-5 CAPLUS

Chaoical or Trada Nama
Pharol, 4.4'-[[9-(2-shbylhesyl)-98-carbarole-1.6-diyl|di-2.1sthenediyl|bis-, l.1'-diacetate (CA INDEX NAME)

Chnoxical or Trade Nens
Phreni, 4.1-[[4-(2-4hy)theay]]-Wi-tacherole-2, 6-diyl[di-2,1phreni, 5-diyl[di-2,1phymer with 2,5-bisit-floresphany]]-1,2,4-massizerole
CM
[1]

CPR 484014-00-8 CMP CR6 H37 N CR

CM 2 CRM 328-01-2 CMF CL4 H8 F2 N2 O

CAS Pagistry Number 444014-92-0 CAPLUS

Chunical or Trads Rans
Foly|| 3-(2-shbythsys)|-28-carbasols-2,6-diyl|-1,2-shbandiyl-1,4phenylencoys-1,4-phenylenc-1,3.4-oandiarols-1,4-phenylencoy-1,4-phenylenc1,2-shbandiyl| CA INDEX NASS|

CAS Registry Number 444014-94-2 CAPLUS

Chunical or Teads Name
Phinol, 4.4"-[[9:(2=aby]hasyi=9H-carbamola=3,6-diyl|di=2,1athamoliy|hist-, polyams with 2,2"-[2,5-bis]hasylasy|-1,4-phanylasa|bis|6[4-fixorophanyl-1,3,4-anadianola| (9CI) (CA INDEX NAME)

CN 2 CION 444014-83-9 CNGF C34 H36 F2 3M G4

CAS Registry Number 444014-96-4 CASSUS

Chemical P. Total Share

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CAS Registry Number 444014-98-6 CASLUS

CPH 484014-00-8 CNF C36 H37 N D0

CMb C34 H36 h5 H4 Of CMB 464014-92-8

CRN 102600-11-3 CNP C20 H28 N2 O2

CAS Registry Number 332865-46-0 CASLUS

Chemical or Trade Name Poly||9-(3-axidopnopyl)-98-carbanols-3,6-diyl|-1,2-athanadiyl|2,5-bix(pantyloxy)-1,4-phanylans|-1,2-athanadiyl| (9CI) (CA INCOX NAME)

CAS Registry Number 332065-46-0 CAPCUS

Chemical or Trade Name Poly||9-(3-axidopropy1)-98-carbanola-3,6-diy1|-1,2-akhamadiy1|2,5-bis(penlyloxy)-1,4-phenylene|-1,2-akhamadiy1|(9CI) (CA DROIX NAME)

CAS Registry Number 332065-51-7 CAPCUS

Chesical or Trads None
Poly||9-(3-axidopopy)1-98-carbarols-3,6-diy||(2-cymno-1,2-alhenadiy)||2,5-bis/penkylony|-1,4-phenylone||(1-cymno-1,2-elhenadiy)||(9C)||(GA INDEX

Me-(CH2)5-0

PAGE 2-A

CRM 00-05-7 CMF CL5 B16 D2

OB.CITING REF COUNT: 70 THERE ARE 70 CAPLUS RECORDS THAT CITE THIS PROCESS (71 CITINGS)

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CAS Registry Number 332865-42-6 CAMEUS

Chemical or Trade Rene 1.4-Benzerediacetomitrile, 2.5-bis(penkylony)-, polymer with 9-(3-midgorpy)1-9H-cackarole-5,6-dicarbonaldshyds (MCI) (CA EMBEX NAMES)

CRR 332065-09-5 CRF CL7 R14 N4 CR

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CAS Registry Number 144726-91-0 CAPLUS

Chemical or Trade Mane 98-Carbarole-3, 6-diamine, 9-sthyl-N3, N6-di-1-(CA DNSEX NAME)

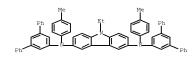
CAS Registry Number 373390-02-4 CAPLUS

CAS Registry Number 441351-18-4 CAPGUS

Chemical or Trade Rame 98-Carbarola-3,6-diamins, N3,N6-biz(3,5-di-2-t) biz(4-mathylphanyl)- (CA INDEX RAME)

CAS Registry Number 441351-19-5 CAPLUS

Chemical or Trade Rame SM-Carbarola-5, 4-dissins, 3-shhyl-8,8'-bis(4-ashhylphanyl)-8,8'-bis([1,1':5',1''-terphenyl]-5'-yl)- (9CI) (CA INDEX NAME)



Chemical or Teads Name
Phosphonium, [4-phesyl-48-1, 2, 4-brianois-2, 5-diyllbix(4, 1phesyl-nesshtylans) [bix[bributyd-, dichlorids, polymar with
3-ordyl-38-orshamale-3, 5-dicenhonalidayde (5Cl) (CA INDEX NAME) CIDR 389847-64-7 CNG C46 871 N3 F2 . 2 C1 CHo-P+(Bu-n)3 CN 2 CER 319018-43-4 CNG C22 R25 N G2

CAS Registry Number 389847-86-9 CAPLUS Chemical or Trada Rens Folgy (Foodsyl-96-larcherole-3, 6-diyl)-1, 2-ehhenediyl-1, 4-phenylane (4-phenyl-48-1, 4-k-tanola-2, 5-diyl)-1, 4-phenylan-1, 2-ehhenediyl (MCI) (CA IMEE

PAGE 1-A



OS.CITING PEF COUNT: 2 THERE ARE 2 CARLUS RECORDS TRAT CITE THIS RECORD (8 CITINGS)

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PAGE 1-B

CAS Requistry Number 169061-20-1 CAPLUS

Chemical or Trade Name 98-Carbanols-3,6-dicarboxaldahyds, 9-(2-athylhasyl)- (CA INDEX NAME

CAS Requistry Number 265126-14-5 CAPLUS

Chemical or Trads Name
Polyp[9-(2-shr)thxsyl)-SH-carbenole-3,6-diyl[-1,2-shhamadiyl-1,4-phamylana-1,2-shhamadiyl-1(XI) (CA INEEX NAME)

Chrosical or Tende News Phosphonium, [1.4-phenylanabiainshbylana]|bia|brightnyl-, dibromids, Phosphonium, [3-(2-shpylmays)]-98-tarbmols-5, 6-ditarboxaidshyda (SCI) (CA INDC: NMS)

CM L CPS 169051-20-1 CNGF C32 H25 N G2 CRR 40017-07-6 CRF C44 830 P2 . 2 Be Ph3+P-CH2 Chinical or Trads Name
Phosphonium, [12-(5-phony1-1,5,4-ozadiazo1-2-y1)-1,4phonylene[bis(melbylene]bis(striphony1-distoratio, polymer with
9-(2-ethyleny1)-99-ozabonole-5,6-distorationalidehyde (MCI) (CR INDEX NAME) CPN 451722-35-3 CNO C52 H42 N2 O P2 . 2 Re

OS.CITING MEF COURT: 27 THERE ARE 27 CAPAUS PECORDS THAT CITE THIS SECOND (27 CITINGS)

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CAS Registry Number 109575-99-3 CAPLUS

Checical or Trads Recs
Puly||9-(2-ethylhesyl)-90-cerkerole-3,5-diyl|-1,2-ethenediyl-1,4ghenylane (diphenylatiylane)-1,4-phenylane-1,2-ethenediyl| (9CI) (CA INGEX
phenylane (diphenylatiylane)-2,4-phenylane-1,2-ethenediyl| (9CI) (CA INGEX

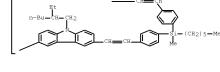
PAGE 1-A

PAGE 1-B



CAS Registry Number 109576-01-0 CAPCUS

Chemical or Trads Rome
Puly||9-(2-schylhasyl)=8-carbenole-3,6-diyl|-1,2-schemadiyl-1,4phrnylame(hemylambylsiylame)=1,4-phrnylame-1,2-schemadiyl| (CA IROMX



OS.CITING MEF COUNT: 1 THEME AME 1 CAMPLUS PECONDS THAT CITE THIS PECOND (1 CITINGS)

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CAS Registry Number 434952-98-4 CARCUS

Chunical or Tode Neme
Poly[[3-(2-athylhaxyl]-38-carhamola-3,6-diyl]-1,2-athamadiyl-1,4phamylama(diphamylatanmylama)-1,4-phamylama-1,2-athamadiyl[(9CI) (CA
INDEX NAME)

PAGE 1-A

PAGE 1-B

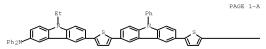


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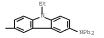
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CAS Registry Number 410547-41-0 CAPLUS

Checical or Trade Name 9H-Carbarol-3-mains. 6,8'-[19-phenyl-9H-carbarol-3-mains. 6,8'-[19-phenyl-9H-carbarols-3.8-diykldi-5,2-thiopheneigy]his19-schyd-N.N-diphenyl- (9CI) (CA INGE NAME)



PAGE 1-B



CAS Registry Number 410547-47-6 CAPLUS

Chaotical or Trads Name 9H-Carbarol-Jonies, 6.6', 6''-(1,3,5-benzenekriyltri-5,2-thiophenekriyltris[3-ethyl-8,N-diphenyl- (9CI) (CA DESE NAME)

OS.CITING PEF COUNT: 49 THERE ARE 49 CAPCUS EXCORDS THAT CITE THIS PECCHO (49 CITINGS)

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Les, Ho-Sit, Film, Tao Watz, Les, Won-Lao, Fasis, Jorg-Wicks, Kang, Dou-Yol
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Molecular Cyrelath, and Liquid Cyrelath, Science and Technology, Section A. Molecular Cyrelath and Liquid Cyrelath (2001), 271, 451-454 CODEN MCCCER, ISSR: 1058-7258. Journal

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CAS Registry Number 192446-73-4 CAPGUS

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CAS Registry Number

Chemical or Trade Name 3M-Carbanols-7, 6-dicarboxaldahyda, 9-(2-athylhanyl)- (CA INDEX NAME)

CAS Registry Number 265126-14-5 CAPLUS

Chemical or Trade Name
Poly[[9-(2-shythasyl)-98-carbarols-3,6-diyl]-1,2-shhamadiyl-1,4-phanylans-1,2-shhamadiyl[(51)(CA INSEX NAME))

CAS Registry Number 405107-97-3 CAPLUS

Chesical or Trade Rose
Phosphosium. [sulfonythis(4.1-phosphosauthylane)]bis[triphospl-,
dibeoside, polymur with 9-(2-sthylhosyl-)H-carbonalos, 6-dicarbonaloshyda
(SCI) (CA.10MEX.MOG)

CRM 246544-30-9 CMP C50 H42 G2 P2 S . 2 Be

CSS 40817-03-6 CNG CR4 H30 P2 . 2 Re

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OS.CITING PEF COUNT: 11 THEFE ARE 11 CAPCUS PECORDS THAT CITE THIS PROGRD (11 CTTINGS)

CEN 169051-20-1 CNF C22 H25 N G2

CAS Registry Number 405107-28-4 CAPLUS

Christel or Trafe Here
Poly[[9-[2-stbythayyl]-38-carbarols-3,6-dtyl]-1,2-stbanedtyl-1,4phenylanemifosyl-1,4-phenylane-1,2-stbanedtyl[(SCI] (CA INGEX NAME)

PAGE 1-A

PAGE 1-B



CAS Registry Number 405107-99-5 CAPLUS

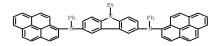
Chemical or Totals Rese Phosphornius (1.4-phospylanakia(nehhylana)|bia|triphonyl-, dibeomids. polymac with 3-[2-stbylbasyl]-88-carbarols-3,6-dicarboxaldahyda (SCI) (CA INDEX NANG)

CRN 169051-20-1 CNF C22 H25 N O2

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CAS Registry Number 373390-02-4 CAPLUS

Chesical or Trads Name 98-Carberole-3, 6-diemine, 9-ethyl-N3, N6-diphenyl-N3, N6-di-1 TREEK NAME:



OS.CITING REF COUNT: 42 THERE ARE 42 CAPLUS PECCEDS THAT CITE THIS PROCESO (42 CITINGS)

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CAS Registry Number 70207-46-4 CARCUS

Chemical or Trade Home 9H-Carbarols-5,6-dicarboxaldshyds, 9-sthyl- (CA INDEX HAME)

CAS Registry Number 103275-09-0 CAPCUS

Chunical or Trada Rama 98-Corbanole-3.6-dicorbonoldshyde, 9-behrodogi- (CA INDEX NAME)

CAS Registry Number 319018-43-4 CAPLUS

Chemical or Trade Name

CAS Registry Number 79591-04-1 CAPCUS

Checical or Trads Recs Poly(9-cotyl-98-cetherole-3,6-diyl)-1.2-ethenediyl-1.4-phenylene-1.2-ethenediyl-1 (CA DUEN NAMO)

Checical or Trade Name Poly|(9-shhyl-98-comberole-3,6-diyl)-1,2-shhondiyl|(9CI) (CA INDEX NAME)

CAS Registry Number 386211-16-1 CAPLUS

Chemical or Trade Name Poly(9-tebradesyl-9H-cacharole-3,6-diyl)-1,2-etheradiyl-1,4-phemylene-1,2-etheradiyl(9CI) (CA INGEX NAME)

Chemical or Trade Name
Phosphonium, [1.4-phenylenabia(methylanel|bia|triphenyl-, dichloride,
polypac with 9-octyl-9H-carbanole-3.6-dicarbonaldebyde (SCI) (Ch INCEX
INCE)

CRN 319010-43-4 CNF CE2 H25 N O2

CN 2 CDS 1519-47-7 CNF C44 858 PS . 2 C1

CAS Registry Number 306211-19-4 CAPLUS

CRM 1519-47-7 CMP C44 H30 P2 , 2 CL

●2 C1-

OS.CITING PEF COUNT: 13 THERE ARE 13 CARCUS PECCEDOS THAT CITE THIS PECCEDO (13 CITINGS)

CAS Registry Number 352354-14-4 CAPLUS

Chemical or Trads Ness Phosphonium, (22.2°, 3, 3°, 5, 5°, 6, 6° = cdefiloror[1,1°-bighenyi]=4, 4° = digibliony=4, 4° phosphonium, (22.2°, 3, 3°, 5, 5°, 6, 6° = cdefiloror[4,1°-dibecoids, plymacwith n-(2-athythauyi)=98-cachanols-3, 6-dicarboxaldabyds (9CI) (CA INDEX NAME) (NAME)

CM 2 CIGN 189051-20-1 CMF C22 JI25 N O2

CAS Pagistry Number 352354-15-5 CAPCUS

Chemical or Trada Nama
Poly[| 4-(2-shbythsy)1-48-carkswols-3, 6-diyl]-1, 2-shbanediyl-1, 4-phsylaneosy(2,2,3,3',5,5',6,6'-octafloore[1,1'-biphsyl]-4,4'-diyl)osy-1,4-phsylane-1,2-shbanediyl (9CI) (CA INDEX NAME)

CAS Registry Number 169051-20-1 CAPCUS

Chemical or Trade Rame 98-Carbanole-3,6-dicarbonaldehyde, 9-(2-ethylheayl)- (CA INDEX NAME)

PAGE 1-B

OS.CITENG REF COUNT: 39 THERE ARE 39 CAPCUS RECORDS THAT CITE THIS RECORD (AO CITENOS)

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Chinese Journal of Polymer Science (2001), 19(5), 615-621 CODEN: CJPS-60; ISSN: 0296-7679 (17);00 (until 1)

CAS Registry Number 309047-65-0 CAPLUS

Chemical or Trade Name
Phosphonium. [(4-phorp)-48-1, 2.4-brianole-2.5-diylibis(4,1-phorp)-denshiyismas[[bis][bis][cibbly]-, dichloride, polymer with
9-octyl-98-carbarole-3,6-dicarboxaldshyde (9CI) (CA INDEX NAME)

CFM 309042-64-7 CNF C46 H71 N3 F2 . 2 C1

CRM 319010-43-4 CNP C22 H25 N D2

CAS Registry Number

Chemical or Trada Name

Poly(9-octyl-98-carbarole-5, 6-diyl)-1, 2-athanadiyl-1, 4-phanylana(4-phanyl-48-1, 2, 4-trianole-2, 5-diyl)-1, 4-phanylana-1, 2-athanadiyl| (SCI) (CA INCEX NAME)

PAGE 1-B

OS.CITING REP COUNT: 3 THERE ARE 3 CAPLUS ESCOSOS THAT CITE THIS ESCOSOS (3 CITINGS)

CAS Registry Number 389847-67-0 CAPLUS

Chemical or Trade Hame
Phosphonium, [(A-phasyl-4H-1, 2, 4-brishols-2, 5-diyl)biz(4, 1-phasyl-4H-1, 2, 4-brishols-2, 5-diyl)biz(4, 1-phasyl-amalylam)[biz(biz(4), -dichlorids, polymer with 9, 9'-dicetyl[3, 3'-bi-98-awhenols]-6,6'-dicarhozaidshyds (9CI) (CA INDEX MMMS)

CES 389847-64-7 CMF C46 871 N3 PR . 2 C1

CRG C42 840 N2 C8

$$\begin{array}{c} Me-(CH_2)\,7 & (CH_2)\,7-Me \\ \\ OHC & CHO \end{array}$$

CAS Registry Number 309047-60-1 CAPLUS

Chemical or Trada Rama
Polyg (3, 9'=diochyl [3, 3'=bi=98-cerberole] = 6, 6'=diyl)=1, 2=ethenediyl=1, 4=phenylene(4-phenyl+48-1, 2, 4-kriarole 2, 5-diyl)=1, 4-phenylene=1, 2=athenediyl] (4CT) (6Z TRAME XAMO)

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CAS Registry Number 374809-47-9 CAPLUS

Chemical or Trade Rene Poly(9-hexyl-9M-cacherols-3,6-diyl)-1,2-ethenediyl-2,5-thiophenediyl-1,2-ethenediyl|(9CT) (CA INDEX NAME)

OS.CITING PEF COUNT: 15 THEFE ARE 13 CAPLYS PECORDS THAT CITE THIS PECORDS (13 CITINGS)

CAS Registry Number

Chemical or Teads Name
Poly((3-mathyl-98-carbanols-5,6-diyl)(4,4'-diphanyl)6,6'-biqu
diyl) (9CI) (CA INDEX NAME)

CAS Registry Number 372521-30-7 CAPLUS

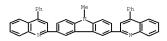
Chesical or Trade Reco Etherone, 1,1'-(9-methyl-98-cerherole-3,6-diyl)his-, polymer with (4,1'-diamino[1,1'-biphenyl|-3,3'-diyl)his[phenylmethesone] (9CI) (CA INDEX NOWE)

CRN 71713-10-5 CMF C26 H20 N2 C2

CAS Registry Number 1403-90-3 CAPLUS

Chemical or Trade Ness Sthemons, 1,1'-(9-methyl-9H-carberole-3,6-diyl)bis- (CA INDEX NAME)

CAS Registry Number 372521-29-4 CAPLUS



OG.CITING REP COUNT: 327 THERE ARE 327 CAPCUS PECORDS THAT CITE THIS PECCED (326 CITINGS)

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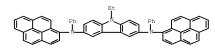
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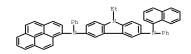
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CAS Pagistry Number 144726-91-0 CAPGUS

Chemical or Trade Name SM:Carbanole-3,5-diamine, 9-ethyl-NJ,NS-di-1-naphtholomyl-NJ,NS-diphenyl (CA_INDEX_NAME)

CAS Registry Number 373390-02-4 CAPCUS





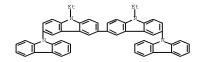
OS.CITING PEF COUNT: 150 THEFE ARE 150 CAPLUS PROGROS THAT CITS THIS DECOMD (159 CITINGS)

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CAS Requistry Number 354135-64-1 CAPLUS

Chemical or Trade Name 9,316,311611,3111-Quaker-9H-carbamola, 91,911-diathyl- (SCI) (CA INDEX NAME)



OS.CITING REP COUNT: 4 THERE ARE 4 CAPLUS ESCOROS TRAT CITE THIS ESCORO (4 CITINGS)

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CAS Pagistry Number 57102-67-1 CAPLUS

Chinical or Trads Rens [3,3*-25-26-cerbarale]-6,6*-dicarboxaldehyde, 9,9*-dishhyl- (CA INDEX RAMS)

CAS Registry Number 193017-43-5 CAPLUS

Chanical or Trade Rams [3,3'-Bi-98-carbarols]-6,6'-di

$$\begin{array}{c} \text{Me} - (\text{CH}_2) \ 7 \\ \text{OH} \end{array} \qquad \begin{array}{c} (\text{CH}_2) \ 7 - \text{Me} \\ \text{CHO} \end{array}$$

CAS Registry Number 350479-91-3 CANCUS

Chemical or Trade Rame
1,5-Bennamediacatoritris, polymer with
9,9-Bennamediacatoritris, polymer with
9,9-Bennamediacatoritris, polymer with
10,5-Bennamediacatoritris, polymer with
10,5-Bennamediacatoritris,

CEOR 193017-43-5 CROF C42 R48 N2 CB

CRN 626-22-2 CRN 626-22-2



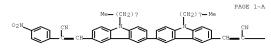
CAS Registry Number 350479-92-4 CAPCUS

PAGE 1-B

CAS Registry Number 350686-34-9 CAPLUS

Chemical or Trade Rame

Benzamacebonitrile. G.G'=[(9.9'=dioctyl[3,3'=bi=98-carbarole]=6,6'-diyl)dimethylidyne[bix[4-mitro- (9CI) (CA IRGEN NAME)]



PAGE 1-B

CAS Registry Number 350606-35-0 CAPLUS

Chasical or Trads Ness 2-Propenoic acid, 5.5'-(9.9'-distbyl[5.5'-bi-9H-carbenois]-6.6'-diyl[bis]2-cyan-, distablyt ester (9C]) (CA INSEX NAMS)

CAS Registry Number 350686-36-1 CAPGUS

Chemical or Trade Rame
Rostic soid, cysmo-, oxydi-2,1-athenediyi satar, polymer with
9,9'-diocty1[5,3'-bi-98-carbanols|-6,6'-dicarboxaldehyde (SCI) (CA INDEX
RAMG)

CRN 193017-43-5 CRF C42 H48 N2 CR

CRN 90070-40-9 CNF CL0 812 N2 OS

Christal or Tesis Home
Poly(9,9"-dioctyl(3,3"-bi-9H-carbarols|-6,6"-diyl(2-cyamo-5-ozo-1propasa-1,3-diyl(ozy-1,2-akhanediylozy-1,2-akhanediylozy(2-cyamo-1-ozo-2propasa-1,3-diyl)(4C1)(CA THOSK ANNA)

PAGE 1-B

for J.S.; Oh, E.J.; Park, J.Y.; Shin, M. W.; Cho, L.H. man/Coposatis Source artment of Chemistry Semiconductor, Myongj University, Kyonggi-Do, 449-728, S. Korea

atividas Svenora & Engineering, B. Sold-Santo Materials for Advanced Technology (2001), 859(23), 1861-80 CODEN: MSSTER; SSR: 0021-81 07 Type

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CAS Registry Number 365279-90-9 CAPLUS

Chemical or Trade Name
Phosphonium, [18,5-bin/manyloxy]-1,4phosphonium, [18,5-bin/manyloxy]-1,4phosphonium, bin/manyloxyl-1,43-odyl-98-carharola-3,6-didarkozaldskyde (901) (CA INDEX NAMS)

CRN 165377-28-6 CNG C56 R62 G2 F2 . 2 Bc

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CAS Registry Number 365279-91-0 CAPLUS

Chamical or Trade Name
Poly(9-octyl-98-oscherole-3.6-diyl)-1.2-ethenediyl[2.5-bis(heayloay)-1.4phreylene[-1.2-ethenediyl] (MCI) (CA INDEX NAME)

OS.CITING PEF COUNT: 2 THERE ADE 2 CAPLUS RECORDS THAT CITE THIS PECOSD (2 CITINGS)

ANSWER 83 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2001 #79358 CAPLUS <u>Full-Avol</u> Document Number 135:211378

Symbias, and properties of e-a conjugated alternating polymeronaling of cardiacion and opportunition units. Stammark, Forkin, Forkinka, Jolig Kunia, Miksalaia, Niakoo, Hidenobu, Adachi, Akia, Okida, Kolch Realgreed-Copcorde Source Advanced Marketta Laborisony, Tankskan Present Cerefu, Japan Chemical Imposition Institute, Tasksba, 205-0047, Japan

OS.CITING PEF COUNT: 2 THEFE APE 2 CAPCUS PEROPOS THAT CITE THIS PEROPO LS8 ANSWER 82 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2001 520463 CAPLUS FAIGHT

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Chemical or Trade Hene 98-Carbanols, 3,6-dishbynyl-9-mshbyl-(SCI) (CA INGEC MAGE)

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CRN 1719-53-5 CNF C4 H10 C18 Bi

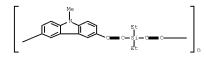
CAS Registry Number 357437-81-1 CAPLUS Chinical or Trade Rama 99-Carbanola, 3,6-disthynyl-9-haxyl-, polymar with dichlorodisthylxilana (SCI) (CA INDEX NAME)

CEUR 156972-68-8 CMF C22 H21 N

CM 2 CSS 1719-53-5 CMF C4 H10 C12 Bi

CAS Pagistry Number

Chemical or Trade Rene Poly(9-methyl-98-carkenole-3,6-diy1)-1,2-ethynediyi(diethylsilylene)-1,2-ethymodyl(9ET) (GE INDEX NAME)



CAS Registry Number 357437-85-5 CASLUS

Chemical or Trade Name Poly((9-hasy1-98-carbarols-3,6-diyl)-1,2-st3 sthymodiyl((9CI) (CA INCEX NAME)

CAS Registry Number 156972-67-7 CAPLUS

Chemical or Trade Name

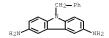
CAS Registry Number 156972-68-8 CAPLUS

Chemical or Trade Name 9H-Carbonols, 3,6-dishbymyl-9-hanyl- (CA IRDEX RAME)

CAS Registry Number 357437-76-4 CAPLUS

Chamical or Trads Name 9H-Carberole, 9-methyl-1,6-bis[2-(krimethylsily1)ethymyl|- (CA DHOEX NAME)

CAS Registry Number



Chemical or Trade Rame 98-Carbanole, 3,6-dishhynyl-9-methyl- (CA INDEX SAME)

OS.CITING REF COUNT: 0 THERE ARE 0 CAPLUS PECORDS THAT CITE THIS PECORD (0 CITIMOS)

limentor Zhu, Weihong; Tian, He; Hu, Meng, Wu, Yingqi Assigneo,Coposite Source Huadong Univ. of Science & Engineering, Peop. Rep. China

CAS Registry Number 342374-27-0 CAPCUS

Chemical or Trade Rema 18-Sem; [de]isoquimolime-1,3(28)-dioms. 2,2'-[3-(phemylmethyl)-38-combemole-3,6-diyl]bis[6-(1-ph INEXX-XAXE)

CAS Registry Number 342374-28-1 CASEUS

CAS Registry Number 04092-75-1 CAPLUS

Chemical or Trada Mana 98-Carbanole-D. 6-diamine. 9-(phenylmethyl)- (CA INDEX NAME)

Theodot's Tiber, H. H. San H. H. San Symbolic Motals (2001), 121 (1-3), 1683-1684 CODEN: SYMEDZ, ISSN: 0370-6770 off Typo

CAS Registry Number 352354-14-4 CAPCUS

Chesical or Tests Non-Phesphatean [127-2, 27-5, 5-6, 6-4-catefisece]; 1.1-bisphespi.1-4,4'-dayllas leav-4; phesphesenthickers [his]triphespi.-4,thionide. physics 12.1-2-bisphespi.-8-catholit-2,4-dischastinages [161] (Sh IDEK OK 1

CRN 352354-13-3 CNF CN2 842 F8 CR F2 . 2 Br

CIN 2 CISS 189051-20-1 CNSF C22 H25 N G2

CAS Registry Number 352354-15-5 CAPLUS

Chemical or Trade Hame
Foly| [9-(2-sthy)hexpl.)-98-carcherole-3,6-diyl]-1,2-sthemediyl-1,4phenylaneomy(2,2:3,3:5,5:6,6'-octafivoro[1,1'-biphenyl]-4,4'-diyl)ony1,4-phenylane-1,2-sthemediyl| (9C1) (CA IMEEX HAME)

PAGE 1-B

OS.CITING REF COUNT: 11 THREE ARE 11 CAPCUS FECOROS THAT CITE THIS PROCEED (11 CITINGS)

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of Total controlling material (no.0) (8.10 cells) the material (no.0) (8.10 cells) (8.10 cells)

CAS Registry Number 192446-73-4 CAPLUS

OS.CITING REP COUNT: 5 THERE ARE 5 CAPLUS RECORDS TRAT CITE THIS RECORD (5 CITINGS)

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Synthesis, and electroluminessence of polygrykonedhynytenely based on faceone containing hole-francport units
Author/Inventor
Zhan, Xiaowel, Liu, Yunqi, Yu, Gui, Wu, Xia, Zhu, Dasben, Sun, Runguang, Wang, Dake, Epsierin, Arthur J.
Patent Assignment/Coposite Source

CAS Registry Number 355004-07-0 CAPLUS

Chemical or Trads Mans
Doiny(3-haryl-9M-carterols-3,6-diyl)-1,2-sthymediyl[9,9-bix(2-sthylharyl)-9M-carterols-3,8-diyl]-1,2-sthymediyl[9,9-bix(2-sthylharyl)-9M-fluorene-2,7-diyl]-1,2-sthymediyl[961] (CA TROSK NAMS)

OS.CITING PEF COUNT: 4L THERE ARE 4L CAPLUS RECORDS THAT CITE THIS PECCEND (4L CITINGS)

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Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
MP 1094101	AP	20010425	EP 2000-205504	20001009
EP 1094101	A3	20040331		
EP 1094101	81	20060111		
US 6361007	BL	20020326	US 1999-421980	19991020
TW 270572	В	20070111	TW 2000-117219	20000825
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Chemical or Trade Hams

Rolsy(9-heny)=98-cacherola=3.6-diyl)iminocachonylimino=2.6maphthalandiyl[2.6-bis[(2-athychasyl)oxy]-2.10-anthracandiyl[-2.6maphthalandiyliminocachonylimino[(9CI)] (CA IMBEX HMME)

OS.CITING PREF COUNT: 9 THERE ARE 9 CARLUS PRECORDS THAT CITE THIS PRECORD (16 CITINGS)

CAS Registry Number 337369-61-6 CAPLUS

Chesical or Trads News Poly||s-(2-athythasy1)-s(3-carberols-3,6-diyl|ininocarbonylinino-2,6-naphthalanediyl[2,6-bix(1,1-dimethylathy1)-s,10-anthracanediyl[-2,6-naphthalanediylininocarbonylinino[(\$Cil (CA INDEX NMS))]

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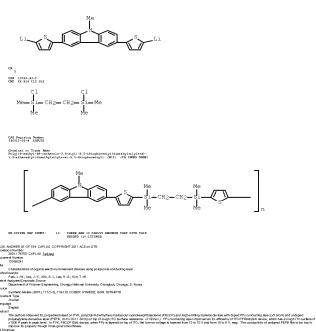
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CAS Registry Number 330482-49-0 CAPLUS Chemical or Trade No 9H-Carbanols, 3,8-di

CAS Registry Number 192446-73-4 CAPLUS

Chemical or Trade Name 3H-Carbanols, 3,6-dimitro-9-octyl- (CA DROEX NAME)



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Chinical or Trade Mans
Lithium. | p-[(9-methyl-98-cachezole-3,6-diyl)di-5,2-thiophemediyl||dipolymer with 1,2-ethenediylbis[chlorodinethylsilame| (9CI) | (CA DUMEX RAME)

OS.CITING PEF COUNT: 25 THERE ARE 25 CAPLUS PECORDS THAT CITE THIS PECORDS (25 CITINGS)

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Lisa ANSINER 03 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000 507656 CAPLUS Faitherd 134-207247 Title
                                  Organic light emitting clodes fabricated with single wall carbon nanotubes depensed in a hole conducting buffer: the role of carbon nanotubes in a hole conducting polymer
        Author/Inventor
Woo, H. S.; Czerw, R.; Websler, S.; Carroll, D. L.; Park, J. W.; Lee, J. H.
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Department of Physics and Astronomy, Clemson University, Clemson. Sc.
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                             CAS Registry Number
192446-73-4 CAPLUS
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OS.CITEMS REF COUNT: 111 THERE ARE 111 CAPACHS PECONDS THAT CITE THIS PECOND (111 CITIMS)

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Patent Language Japanese Patent Information

PATENT NO.	KND	DATE	APPLICATION NO.	DATE
JP 2000344777	A	20001212	JP 1999-151099	19990531
JP 3712037	02	20051102		

CAS Registry Number

Chemical or Trade Name 9H-Carbanola, 3,6-distbymyl-9-tatradacyl- (CA INDEX NAME)

CAS Registry Number 245640-35-5 CAPLUS

OG.CITING PEF COUNT: 1 THEFE ARE 1 CAPAUS FECOROS TRAT CITE THIS FECORO (2 CITINGS)

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CAS Registry Number 307519-17-1 CAPLUS

Chemical or Trade Name
Proposedinitrile. 2.2'-[(9-sthyl-98-carborole-3,6-diyl)bis[2.1-sthunsdiyl(6-asthyl-48-yyras-2-yl-4-ylidans|||bis-(9CI) (CR INCEX NAME)

CAS Registry Number 307519-19-3 CAMAUS

Chemical or Trade Rese Proposedinistrike. 2.2'-[[3-(phemylmethyl)-98-carbesole-3.6-diyl|bis|2.1-abhasedyl[6-aathyl-48-pyram-2-yl-4-ylidens||[bix- (SCI) (CA INDEX NAME)]

OS.CITING REP COUNT: 3 THERE ARE 3 CAPCUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

Chanical or Trads Rens 98-Carbanole, J.5-bis; 2-(6-iodo-9-ketradecyl-98-carbanol-3-yl)ekhynyl|-9-ketadecyl- (CA DISSX NAMS)

OS.CITING PEF COUNT: 1 THERE ARE 1 CARCUS PECORDS THAT CITE THIS PECORD (2 CITINGS)

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000344073	A	20001212	JP 1999-150261	19990504
JP 3492241	B2	20040203		

CAS Pagistry Number 245640-30-0 CAPCUS

Chanical or Trade Hens 98-Oschenola, J.S-dishlynyl-9-tehradacyl-, polymer with 3.5-dishdo-9-tehradacyl-98-carbanola (CA INDEX HAME)

CECR 188740-71-8 CMF C30 H37 N

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CAS Ragistry Number 109575-99-3 CAPCUS

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PAGE 1-A

PAGE 1-B

PAGE 1-B



CAS Registry Number 109576-01-0 CAPLUS

Chunical or Trada Nama
Polyg [9-(2-athylheayl1-88-cacherole-3.6-diyl]-1.2-athenediyl-1.4phenylane(heaylnethylsilylane)-1.4-phenylane-1.2-athenediyl] (Ch INOBX
RMON)

OS.CITING HEF COUNT: 74 THERE ARE 74 CAPCUS PECODOS THAT CITE THIS RECORD (70 CITINGS)

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CAS Registry Number 315701-21-4 CAPCUS

Chemical or Trade Name
Poly((9-hasyl-98-carborols-3,6-diy()-1,2-sthenediy(-1,4-phanylsns-1,2-sthenediy(-1,4-sthenediy(-1

CAS Registry Number 315701-21-4 CAPLUS

Chemical or Trade Name
Poly((9-hemy)=78-carberole=3,6-diyl)=1,2-sthemediyl=1,4-phenyleme=1,2-sthemediyl=(95) (CA INDEX NAME)

OS.CITING REP COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

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CAS Registry Number 295796-59-7 CAPLUS

Chemical or Trade Name
Poly[[9-(2-shythesyl]-98-carborols-3,8-diyl]-1,2-shhemediyl[2,5-bis(kinshhylsik]-1,4-yphenylens[-1,2-shhemediyl] (SCI) (CA INDEX NAME)

CAS Registry Number 295796-62-2 CAMCUS

Chemical or Trade Name
Phosphomium. [[2-[12-shbylhenyllony]-5-methony-1, 4phonylone [lid-[12-shbylhenyllony]-5-dichloride, polymer with
3-(2-shbylhenyl]-98-carherole-5,6-dicheboxaldebyde (SCI) (CA INDEX SAME)

CRM 169051-20-1 CMP C22 H25 N D2

CRN 161960-51-6 CRN CS3 NS6 02 P2 . 2 C1

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CAS Registry Number 297143-71-6 CAFGUS

Chemical or Trade Rame
Poly(3-askhyl-3H-carksrols-3,6-diyl)(4,4'-diphanyl[6,6'-biqu
divl] (SCI) (G. ISBEX NAME)

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Chemical or Trade Reme 98-Carbaxales, 9-(2-sthythsay1) = (CA INDEX NAME)

CAS Registry Number 295796-58-6 CAPLUS

Chemical or Trade Name
Phosphonium. [12.5-bisTrinatDylsilyl)-1,4phosylans[bis(outhylans[bis[triphonyl-, dibcomids, polymer with
9-(2-shlylhasyl)-9H-carbarols-3,5-disarbonaldshyde (MCI) (CA INDEX NAME)

CRN 169051-20-1 CNF C22 825 N O2

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OS.CITING PEF COUNT: 96 THERE ARE 96 CAPLUS PECONDS THAT CITE THIS RECORD (97 CITINGS)

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PATENT NO.	KND	DATE	APPLICATION NO.	DATE
JP 3046014	B-1	20000529	JT 1999-45046	19990224
JP 2000212486	A	20000802		
KR 2000050907	A	20000005	KR 1999-1056	19990115
US 6344206	2-1	20020205	US 1999-976126	19990019

The polymers are made from disarchiene compts, which have grouss deviced from thorous, 2.7-dilly-design-brenkfrow (filterious, 2.7-dilly-design-brenkfrow), 1.4-dilly-design-brenkfrow (filterious, 2.4-dilly-design-brenkfrow), 2.5-dilly-design-brenkfrow (filterious, 2.4-dilly-design-brenkfrow), 2.5-dilly-design-brenkfrow

CAS Registry Number 205142-93-0 CAPLUS

Chanical or Trade Name Phanol, 4,4*-(19-hasy1-98-cacherola-3,6-dsyl)di-2,1-athenediyi|bix-discatelat (ester) 9501 (CA INDEX NAME)

CAS Registry Number 205142-95-2 CAPCUS

Chemical or Trade Name Phenol, 4,4'-[(9-hexyl-98-cemberole-3,6-diyl)di-2,1-ek (CA INSEX NAME)

CAS Registry Number 205143-00-2 CAPCUS

Checkcal or Trade Ness 9H-Carbanole, 9-heayl-3.6-bis[2-[4-(2-pe homopolymer (9CI) (CA INDEX NAME)) CK 1

CRR 285142-97-4 CRF CL0 H37 N C0

PAGE 1-A

_ O_ CH2_C_C CAS Registry Number 285143-02-4 CAPGUS Christel or Trade Rome 9H-Carbarola, 9-hasyl-3,6-bis|2-|4-|2-propynyloxy|phanyl|sthanyl|-,polymewith 3,9-dihasyl-2,7-bis|2-|4-(2-propynyloxy|phanyl|sthanyl|-9H-sluerene (PCI) (CA INGEX NHWS) CEOR 285142-97-4 CROF C40 857 N C02 PAGE 1-A Me- (CH₂) 5 _ O_ CH2_C__CH CPS 285142-96-3 CNF C47 H50 D2 PAGE 1-A Me- (CH2) 5 (CH2)5-Me PAGE 1-B __ O_ CH2_C CAS Registry Number 285142-97-4 CAPLUS Chimical or Trade Hame 28-Carbanola, 3-hazyl-3,6-bix[2-[4-(2-propym-1-yloxy)phanyl]a INDEX NAME: Me- (CH2) 5 PAGE 1-B

OS.CITING REP COUNT: ? THREE ARE ? CAPLUS RECORDS THAT CITE THIS RECORD (? CITINGS)

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Physical Chemistry Chemical Physics (2000), 2(16), 3565-3569 CODEN: PPCPPQ; ISSN: 1463-9076
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CAS Registry Number 221595-29-9 CAPLUS

Chemical or Trade Rame
Poly| (9-docoxyl-98-carbarole-3,6-diyl)mathylameoxy(2-cyano-1-oxo-2-propens-1,3-diyl)(3-docoxyl-98-carbarole-3,6-diyl)(2-cyano-1-oxo-1-propens-1,3-diyl)(yesyano-1-oxo-1-propens-1-oxo-1-propen

PAGE 1-A

PAGE 1-B

OS.CITING REP COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

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CAS Registry Number 181949-07-5 CARCUS

Chemical or Trade Name
Proponedimitrits, 2,2°-[9-batradacyl=98-carbenole=3,6-diyl]bis[2,1-athymodyl(9-tatradacyl=98-carbenole=6,3-diyl]mathylidyms[]bis= (9CI) (CA IMBER NAME)

PAGE 1-A

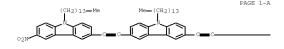
_ O_ CH2_C_ CH

CAS Registry Number 183275-93-6 CAPLUS

Chunkcal or Trada Mans
Dolg (3-bid-makegd-y-19-carbarols-5, 6-diyl) (2-cyano-3-ozo-1-propans-1, 3-diyl) ozy-1, 6-bezarediylosy(2-cyano-1-ozo-2-propans-1, 3-diyl) (\$CI (CA INDEX NAME)

CAS Pagistry Number 188740-75-2 CAPCUS

Chemical or Trade Rame 98-Carbanole, J.5-bis|2-(6-mikro-9-tekradecyl-98-carbanol-3-yl)ethywyl|-9-tekradecyl- (CA DUBEX NAMEN)

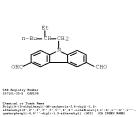


PAGE 1-B

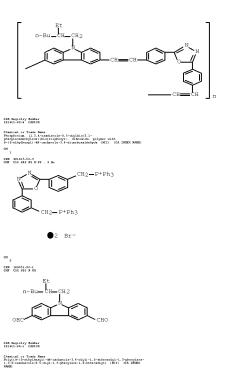
PAGE 1-B

Chenical or Trada Rama
Acatic acid, cyano-, mathyl astar, polymar with
9-(11-bydroxyandecyl)-99-carbanola-3,6-dicarbonoldshyde (9CI) (CA INDEX
RAMS)

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OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS PECONOS THAT CITE THIS PECONO (4 CITINGS)

L38 ANSWER 108 OF 154 CAPLUS CCPYRIGHT 2011 ACS on STN Accession Number 2000-04862 CAPLUS Figling!
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CAS Registry Number 280578-29-2 CASLUS

Chemical or Trade Name Bibbarons, 1,1'=[3-(2-ethylhenyl]-9H-carborols-3,6-diyl]bis-, polymer with (3,4'-diamino[1,1'-diphnyl]-3,3'-diyl]bis[$\{4'-(octylony)[1,1'-biphnyl]-1,2'-(octylony)$

CBUR 280578-28-L CMP C24 H29 N C2

CRM 200578-26-9 CMF C54 H60 N2 C4

OG.CITING PEF COUNT: 65 THERE ARE 65 CAPCUS RECORDS THAT CITE THIS RECORD (66 CITINGS)

nos (2000), 67-69, 51-55 CODEN: JLUMAS; ISSN: 0022-2313

Chemical or Trads Ress
Puly||9-(2=4)/Masy11-98-carksrole-3,5-diyl|-1,2-ekhemadiyl-1,4ghenylens (diphreylsilylene|-1,4-phenylene-1,2-ekhemadiyl| (SCI) (CA INGEX

PAGE 1-B

OS.CITING PEF COUNT: 10 THEPE ARE 10 CAPCUS PECONDS THAT CITE THIS PECOND (10 CITINGS)

_ O- (CH₂) 7-Me

CAS Registry Number 980578-31-6 CAPLUS

Chemical or Trade Rams

Roly[[4,4"-bis,4"-(octylosy)phenyl[6,6"-biquinoline[-2,2"-diyl][9-(2-stythasy)-88-cacherols-5,6-diyl[[9](SEI) (CR INEED NAME)

OS.CITING REP COUNT: 6 THERE ARE 6 CAPCUS PECORDS THAT CITE THIS PECORD (6 CITINGS)

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CAS Pagistry Number 51545-40-5 CAPLUS

CAS Registry Number 57102-34-8 CAPLUS

Chemical or Tesds Home 9H-Carbarols, 3,6-bis(1,1-dissthylathyl)-9-athyl-, radical ion(1+) (9CI) (CA INDEX NAME)

The
Synthesis and electro-optical proporties of electrol uninescent polymors confaining carbaziole unil
Authoritiement.

Jin. Sung-Ho; Sun, Yang-Kook; Sichi, Byung-Heer, Kim, Wochang

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Polyma Licensin, Samung Advanced Institute of Technology(SATT), Taejon, 1001 2, 8. Kona

Polymer Journal (2000), 36(5), 957-963 CODEN: EUPJAG; ISSN: 0014-3057

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CAS Registry Number 267407-18-1 CAPLUS

Chinical or Trads Mans
Phosphonium, [[2-(2-shhylhamyt)-5-makhyl-1,Aphasylans|bix(makhylans|bix|strphasyl-, dichlorids, polymac with
9-shbyl-99-corbonuml=1.5-dicorbonalddyde (SCI) (CA INDEX NAME)

CES 267407-17-0 CNF C53 856 P2 . 2 C1

CES 70207-46-4 CNF CL6 813 N GS

CAS Registry Number 224558-12-7 CANCUS

Chemical or Trada Rama
Phosphonium, [(2):5-dihesyl-1,4-phonylene]bis(methylene][bis|kriphonyl-,dichloride, polymer with 9-sthyl-98-carbatols-5,6-dicarboxaldshyds (9CI)(CA INCOX RAMO)

CRM 224550-07-0 CNF C56 H62 F2 . 2 C1

●2 C1-

CDN 70207-46-4 CMF C16 H13 N C2

CAS Registry Number 265124-41-2 CAPLUS

Chanical or Trade Name
Poly(9-ehlp1-98-carborole-3.6-diyl)-1.2-ethenediyl(2.5-diheayl-1.4phrylend-1.2-ethenediyl(2.5-diheayl-1.4phrylend-1.2-ethenediyl(3.5-diheayl-1.4-

OS.CITING PRF COUNT: 23 THERE ARE 23 CAPLUS EXCORDE THAT CITE THIS PROGRD (23 CITINGS)

L38 ANSWER 110 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accordion Number 2000 1,5000 CAPLUS Full-had Documen Number 122,250051

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CAS Registry Number 192446-73-4 CASLUS

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rence in bland of polymers containing carbazole and 1,3,4-oxadiazole units

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CAS Pagistry Number 224550-12-7 CAPCUS

Chemical or Trada Hama
Phosphonium, [(2,5-dihasyl-1,4-phasylama|bis/mathylama|bis/triphasyl-,dichloride, polymer with 9-sthyl-98-cerborole-5.6-dicerbonaldshyde (9CI) (CA INCOX NAMES)

CRR 224550-07-0 CRP CS6 862 P2 , 2 C1

●2 Cl-

CPR 7020?-46-4 CNF CL6 813 N G2

CAS Registry Number 265124-41-2 CAFGUS

Chemical or Trade Reme Poly(3-sthronder3, 6-diyl)-1, 2-sthrondiyl(2,5-dihazyl-1,4-phreylane)-1,2-sthrondiyl(9XI) (CA IMBE NAME)

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Thin Sole Films (2000), 38(1), 2, 118-121 CODEN: THISFAP, 1381: 004-4000

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CAS Registry Number 265126-14-5 CAPLUS

Chemical or Trade Name
Poly||9-(2-athylhasyl)-3M-carbarols-3,6-diyl|-1,2-athemadiyl-1,4-phanylans-1,2-athemadiyl| (XI) (CA INGEX NAME)

CAS Registry Number 265126-15-6 CAMAUS

Chemical or Trade Name Poly||9-(2-sh)phanyl)-98-cachemole-3.6-diyl|-1.2-sh)emediyl|1.1'-biphanyl|-4.4'-diyl-1.2-sh)emediyl| (ACI) (CA INDEX NAME)

CAS Registry Number 265126-16-7 CAPCUS

Chamical or Trade Name $\begin{array}{ll} Poly[|9^-(2-eth)| heavy) = 98-carbonole = 3.6-diyl[-1.2-eth) heavy) = 98-carbonole = 3.6-diyl[-1.2-eth) heavy | (SCI) | (CA INDEX NAME) | \\ \end{array}$

CAS Registry Number 265126-17-8 CAMAUS

Chemical or Trade Name
Poly||9-(2-sthylhamyl)-SH-carbatols-3,6-diyl|-1,2-sthemadiyl-1,4-

CAS Pagistry Number 265126-18-9 CAPLUS

Chanical or Trada Rama
Poly([9-(2-elhylhexyl)-98-carbonole-3.6-diyl]-1, 2-elhenediyl-9, 10enthrocenediyl-1, 2-elhenediyl (PCI) (CA INGEX RAME)

CAS Registry Number 265126-19-0 CAPCUS

Chemical or Trade Rame
Poly[[3-(2-sthythapyl)-XM-cachemols-3,6-diyl]-1,2-sthenediyl(2,5-dimethyl-1,4-phemylanel-1,2-sthenediyl)(SCI) (CA INDEX NAME)

OS.CITING REP COUNT: 37 THREE ARE 37 CAPLYS PROCRDS THAT CITS THIS SECOND (50 CITINGS)

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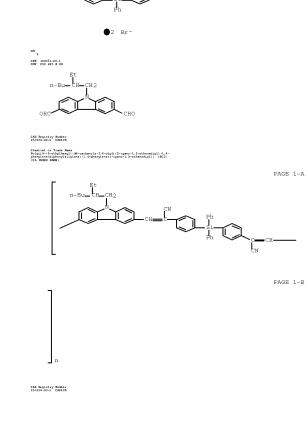
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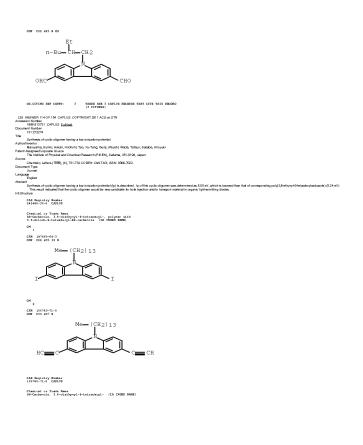
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Chemical or Trade Rome
Phosphonium, [(diphamylnilylare)bin(4,1-phamylanemathylare)|bin|triphamyl,dibronium, polymar with 9-(2-abhylhamyl)-98-cachamola-5,6dicenboundleybyde (%21) (CA INGEN MARCH)

CRM 181848-95-3 CMF C62 H52 P2 S1 . 2 Se



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CAS Registry Number 245648-35-5 CAPLUS

Chemical or Trade Name 9H-Carbarols, 3,6-bis[2-(6-iodo-9-batradacyl-9H-carbarol-3-yl]athynyl]-9-batradacyl-7 (CA DOEN NAME)

PAGE 1-B

OS.CITING REP COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

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CAS Registry Number 109575-99-3 CAPLUS

Christical or Trads News Polyl (8-(2-sh)ylhasyl)-98-carbonole-3,6-diyl-1,2-sh)emadiyl-1,4-Polyl (8-(2-sh)ylhasyl)-98-carbonole-3,5-diyl-1,2-sh)emadiyl-(9CI) (CA INDEX Norsh) Americki phenylallylens|-1,4-phenylens-1,2-sh)emadiyl| (9CI) (CA INDEX

PAGE 1-B



OS.CITING PEF COUNT: ? THESE ARE ? CAPCUS PECORDS THAT CITE THIS PECORD (? CITINGS)

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Journal of Physical Chemistry 8 (1999), 103(31), 6429-6433 CODER: JPCBFK; ISSN: 1089-5647 rf Type

CAS Pagistry Number 244036-30-4 CAPLUS

Chinical or Trada Rans
Poly(9-(2-ethylhanyl)-38-cachanole-3.6-diyl) cachonylhydranocachonyl (2.5-binoctylony)-1.4-phanylans (cachonylhydranocachonyl) (9CI) (CA INGEX names

Chesical or Trade News
1.4-Bennandicarboxylic acid. 2.5-bis(octylosy)-. dihydranids. polymer
with 9-(2-sthylhenyl)-98-carbonols-3.6-dicarboxyl dichlorids (9CI) (CA
IMBEX.NSG)

CML C55 N53 C15 N O5

CM 2 CPM 215324-12-2 CMF C24 H42 N4 O4

CAS Registry Number 244036-31-5 CAPLUS

Chemical or Trade Name
Poly||9-(2-sthylhamyl)-98-carbamols-3,6-diyl|-1,3,4-omadismols-2,5diyl|5-bis(omyl)-1,4-phenyleme|-1,3,4-omadismols-2,5diyl|5-bis(omyl)-1,4-phenyleme|-1,3,4-omadismols-2,5-diyl|(9CE)
(CA_ENGER_NAME)

OS.CITING FEP COUNT: 25 THERE ARE 25 CAPLUS PECORDS THAT CITE THIS BECOMD (25 CITINGS)

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CAS Registry Number 229626-78-2 CAPLUS

Chesical or Trads Rese 9H-Carbarola-3,6-dicarbosamids, 9-(2-sthylhasyl)-N3,N3,N6,N6-Latconathyl-(CA EMEEX NAGE)

CAS Registry Number 229626-79-3 CAPLUS

Chemical or Trade Name 9H-Carbarols-3,6-dicarboxylic acid, 9-(2-sthylheay1)- (CA INCEX NAME)

Chemical or Trade Rome
1.4-Demnansficarboxylic acid, 2.5-biz/octyloxyl-, dibydeanide, polymer
with 3-(2-shythanyl)-98-carbanols-5,6-dicarboxyl dichloride (9CI) (CA
INDEX NAME)

CML C55 N52 C15 N O5 CMN 558656-10-6

CRM 215324-12-2 CNP C24 H42 N4 O4

CAS Registry Number 244036-31-5 CAPLUS

Chimical or Trade Ness Poly||\$-(2-shythay)|-58-carbanols-3,5-diy||-1,3,4-oxadianols-2,5-diy||2,5-bis||cetypoy|-1,4-phenylene|-1,3,4-oxadianols-2,5-diy|| (9CI) (02) 19889-1869)

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Hockelse, (1996), 32(14), 4726-4731 COSBH. MIMAGEN; ISSN: 0024-0297

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CRS 215324-12-2 CRF C24 H42 N4 C4

CAS Registry Number 248036-30-4 CAPLUS

Chunt cal or Trada Name Puly[8-16-hbylhenyll-98-carbarols-2,6-diyl|sarbonylhydrano carbonyl[2,5-bia/cctjonyl-1,4-phenylene|carbonylhydrano carbonyl[(902) (CA DEBEX RMMS)

CAS Registry Number 229626-80-6 CAMUS

CAS Registry Number 244036-29-1 CAPCUS

Chanical or Teafs Hams

1.4-Hearenedicarboxylic acid, 2.5-bix(ectylexy)-, dibydcarids, polymer
with 3-(2-kDythaxyl)-36-carbarols-3,6-dicarboxyl dichlorids (KII) (CA
IMEN: AGMEN]

CFM 229626-00-6 CMF C22 H23 C12 N G2

193017-44-6 CAPLUS

Chemical or Trade Name

1.4-Renzerediacatomitrite, polymer with

9.9'-dioctyl[8.3'-bi-98-cerborole|-6.6'-dicerboseldehyde (9CI) (CA INDEX
RAME)

CAS Registry Number 1930L7-45-7 CAMEUS

 $\begin{array}{lll} \textbf{Chroscal or Trade None} \\ \textbf{Polys} (9,9)^*-\text{dicetyl} [3,3]^*-\text{bi-98}-\text{carbanole}] = 6,6]^*-\text{diyl} (2-\text{cyaro-k},2-\text{abbanodiyl}) = 3,4-\text{phanylams} (1-\text{cyaro-k},2-\text{abbanodiyl})] & (SCI) & (CA INDEX NAME) \\ \textbf{CALLY CARROWS NAME)} \\ \textbf{CALLY CARROWS NAME)}$

PAGE 1-B

OS.CITING PEF COUNT: 25 THERE ARE 25 CAPLUS PECONDS THAT CITE THIS PECOND (25 CITINGS)

Authoritiendo's Jin, Suny-leo, Kim, Woo-Hong, Son, Byuny-Hee, Song, In-Suny, Han, Euro-Mi Palest Assignam-Corposale Source Sammany Distry Proton Co. Ltd., S. Kriveg, Sammung General Chemisals Co. Ltd. Source Ind. UK Pal. Appl., 47 pp. COCEN-BAXXDU Document Type Failer!

PATENT NO.	KND	DATE	APPLICATION NO.	DATE
GB 535+515	A	19990217	GB 1998-17150	19960606
GB 2328212	В	20001129		
JP 11124575	А	19990511	JP 1996-225651	19960610
JP 2974070	82	19991108		
US 6124046	A	20000926	US 1598-133101	19960612

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CAS Registry Number 224558-12-7 CAPLUS

Chemical or Trade Name
Phosphonium, [(2,5-dibasyl-1, k-phanylane)bir(mathytama)|bir|triphanyl-,
dichloride, polymer with 9-shyd-98-cerbarole-5,6-dicambosaldshyde (MCT)
(CA INSEX Mathytama)

CDM 224558-07-0 CMP C56 H62 P2 . 2 CL

●2 C1-

OS.CITIMS REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS TRAT CITE THIS RECORD (11 CTTMGS)

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CAS Registry Number 109575-99-J CAPCUS

Chemical or Trade Name
Poly[9-(2-ethylheayl)-98-cecherole-3.6-diyl|-1.2-ethenediyl-1.4phraylane[diphenylsilylene]-1.4-phraylane1-2.2-ethenediyl|(9CI) (CA INDEX
RMGE)

PAGE 1-A

PAGE 1-B



CAS Pagistry Number 189576-03-2 CAPCUS

Chunical or Trads Rans
Poly([9-(2-ebylheay1-88-cachemole-3,6-diyl[-1,2-ebhanediyl-1,4-phanylans(dibutylmiylans)-1,4-phanylans-1,2-ebhanediyl[(9CI) (CA INDEX RAMS)

PAGE 1-A

CAS Registry Number 201745-62-2 CAPLUS

Chemical or Tends News
Phosphosium: [idhbutyisilyineh]his(4.1-phosphosium)phosphosium: [idhbutyisilyineh]his(4.1-phosphosium)phosium with 3-12-elbylhusyi-3M-carbanola-5.6-dicambosaldshyda
(ACI) (Ch.1888X NRMS)

CPM 181648-92-0 CMP C50 H60 P2 Si . 2 Be

CRF 169051-20-1 CRF C22 H25 N C2

CAS Registry Number 201745-67-7 CASCUS

Chemical or Trade Rome
Phosphonium. [(diphenylsitylere)bis(4,1-phenylensmethylere)|bis(triphenyldiphenyl-)election polymer with 9-(2-ahydhasyl)-9H-cachasola-3,6discebonaledyde (%21) CC ROMEN MORE

CM 1 CM 1 CM 181648-95-3 CMF C62 H52 F2 S1 . 2 Be

PAGE 1-B

OS.CITING PEF COUNT: 5 THESE ADE 3 CAPCUS PECCEDS THAT CITE THIS SECOND (5 CITINGS)

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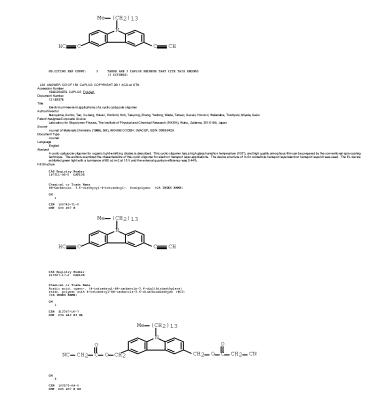
Department of Physics, 124, SPFL, Lauranne, CH-1015, Seitz.
Bootos

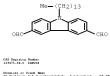
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Occument Tiles d - Statistics in state and count rote, who event quarter side of the country of CAS Registry Number 220160-67-0 CAPCUS (CH2)7-Me CAS Registry Number 220160-67-8 CAPLUS Chemical or Trade Name [3,3'-Bi-9H-carbamole]-6,6' (CH₂) 7-Me L38 ANSWER 122 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1996/207301 CAPLUS (1924)51 13137200 Tile 11 7700

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CAS Registry Number 188740-71-8 CAPLUS

CAS Registry Number 213307-16-7 CAPCUS

Chemical or Trade Name Acetic acid, cyano-, (9-tetradecyl-98 ester (9CI) (CA DROEX NAME)

CAS Registry Number 227790-24-5 CAPLUS

Chemical or Trade Name 98-Carbarols-3 6-diget

OS.CITENG HEF COUNT: S4 THERE ARE S4 CAPCUS PECCHOS THAT CITE THIS PECCHO (S5 CITINGS)

L38 ANSWER 124 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1999:141707 CAPLUS <u>Farhori</u>

Document Number 1923/39817
The Synthesis and electrolumine scent properties of hulencoycle-confaining polylys-of Authoritiencies Wang, July, Henring, Zhang, Fenging, Wang, Yongohang Valand, Sang, Hay, Wenting, Zhang, Fenging, Wang, Yongohang Paland MasgimacCoposite Source Speciment of chamiller, Palaing Uniterally, Eejing, 100871, Poop. Rep. China Sons. Department of chamiller, Palaing Uniterally, Eejing, 100871, Poop. Rep. China e Symbolo Motals, 1999), 99(3), 249-222 CODEN: SYMEDZ; ISSN: 0379-6779 med Type Journal of the Company of the C CAS Registry Number 173403-07-1 CAPLUS Chantcal or Trade Home 98-Carbarole-7,6-dicarboxaldahyde, 9-heptyl- (CA INDEX NAME) CAS Registry Number 224183-10-2 CARCUS Chemical or Teads Name
Phosphonium, [1,3,4-omediarols-2,5-diyibis[4,1phosphonium, [1,3,4-omediarols-2,5-diyibis[4,1phosphismosschylans][bis[kin]phosph-3,6-dicethonolshyde (SCI) (CA INDEX NAME) CROR 221615-56-1 CROP C52 R42 N2 O P2 CHo-P+Ph3 Ph3+P-CH2

CAS Pagistry Number 224103-15-7 CAPCUS

Chemical or Trade Rame
Poly|(9-hephyl-99-carbenols-3,6-diyl)-1,2-ebbanediyl-1,4-phenyless-1,3,4caediarols-2,5-diyl-1,4-phenyless-1,2-ebbanediyl|(9CI)(CA INDEX NAME)

OS.CITING PEF COUNT: 22 THERE ARE 22 CAPCUS RECORDS THAT CITE THIS PROCED (23 CITINGS)

Chemical or Trads Name
Phosphonium, 1.17-1.3.4-coastianole-2.5-dighbig(4,1phosphonium), 1.17-1.3.4-coastianole-2.5-dighbig(4,1phosphonium), 1.17-1.3.4-coastianole-2.5-dighbig(4,12-(2-shhyllway1)-28-cocharole-3.6-dicarboxaldshyde (CA IRUEN NACI)

●2 Br-

CPM 169051-20-L CMF C22 H25 N D2

CAS Registry Number 221615-60-7 CAPLUS

Chemical or Trade Name
Poly||9-(2-athythamy1)-58-carbamola-2,6-diy1|-1,2-athamadiy1-1,4-phanytama1,3,4-massianola-2,5-diy1-1,4-phanytama-1,2-athamadiy1||(CA INGEX NAME)

The Distinction of the Article State of the Article

CAS Registry Number 220160-67-8 CAPGUS

Chemical or Trade Rene [3.3° Bi-96 -carbatole] -6.6' -dicarboxylic acid, 9.9' -diocbyl- (CA INDEX RAMES)

OS.CITING REF COUNT: ? THEFE ARE ? CAPCUS PROOFING THAT CITE THIS PROOFING (9 CITINGS)

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CAS Registry Number 169051-20-1 CAPEUS

Chanical or Trade Sams 98-Carbanols-5,6-dicarboxaldshyds, 9-(2-sthylhszyl)- (CA INDEX NAME)

Chemical or Trade Name
Phosphonium. [1.3.4-romediarola=2.5-edgylhis[3.1-phosphonium.]

Phosphonium. [1.5.4-romediarola=2.5-edgylhis[3.1-phosphonium]

2-(2-sthylhasyl)=98-orchanola=2.5-eddiaroboxaldahyda (RCI) (CA IMEEN NAME)

CRN 281615-50-3 CNF C52 H42 N2 O F2 . 2 Be

●2 Br-

CHOR 169051-20-1 CNGF C22 R25 N C02

CAS Registry Number 221615-64-1 CAPCUS

Chemical or Trade Rens Physics (3-12-subplies): -38-carborols-3, 6-diyl|-1, 2-sthenediyl-1, 3-phenyless-1, y, 4-caselyanols-2, 3-diyl-1, 3-phenyless-1, 2-sthenediyl-1 (SCI) (6A IMEEX

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SECOND (199 CTITANS
ALENDER 127 OF 154 CAPCINS COPPRISANT 2011 ACS on STN
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1998 REAZING FISCOP
1998 OS.CITING REF COUNT: 99 THERE ARE 99 CAPLUS RECORDS THAT CITE THIS PECCEPO (102 CITINGS)

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CAS Registry Number 57102-00-2 CAPUS

OS.CITING PEF COUNT: 17 THEPE ARE 17 CAPCUS PECCEDO THAT CITE THIS PROCESO (17 CITINGS)

MISWER 126 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN to Number 1986501124 CAPLUS <u>Falsosi</u> et Number 129:308400

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PATENT NO. KIND DATE APPLICATION NO. DATE

JP 10265773 A 19901006 JP 1997-69911 19970324

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CAS Registry Number 214330-72-4 CAPLUS

Chemical or Trade Name
98-Carbamola-3, 6-diamine, 93-|6-|bix|4-(1-makhyt-1phenylathyl)phenyl|amino|-9-bix|-9-bixmora-1-3-yl|-9-skhyt-86, N6-bix|4-(1-makhyt-1-bixmora-1-3-yl)-9-skhyt-86, N6-bix|4-(1-makhyt-1-bixmylathyl)phenyl-|87-phenyl-|CA|INDEN NRGI|

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10251633	A	19900922	JP 1997-62560	19970017
JP 3503403	B2	20040308		
ED 664110	Al	19900923	RP 1998-301986	19980317
EP 866110	81	20041020		
EP 934992	A1	19990011	HP 1939-105590	19960317
EP 934992	B1	20040721		
US 6540428	B1	20010020	US 1996-42569	19960317
US 20010033944	A1	20011025		

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CAS Registry Number 213968-54-8 CAMLUS

Chemical or Trade Name 98-Carbarols-3, 6-diamins, N3.N3.N6.N6-tetrahis[4-[1-(9-sthyl-98 y1)-1-osthylathyl|phanyl|-9-mathyl- (CA INDEX NAME)

CAS Registry Number 214338-73-6 CAPLUS

CAS Pagistry Number 174202-82-5 CAPLUS

CER 174202-80-3 CMF C25 831 N G3

Chimical or Teads Rams
Acelic acid, cyamo-, mathyd askar, polymar with
9-(11-hydroxyamdacyl)-98-cartherols-3,6-dicarboxaldabyda (SCI) (CA INDEX
RMMS)

Chunical or Tode Name 98-Cebrole - 3.8-deans. 83,83-bin|4-(1-1),1'-biphenyl|-4-yl-1-anbylishyl|banyl|-8-(-1-bin|4-(1-1),1'-biphenyl|-4-yl-1-abbylishyl|banyl|-8-(-1-bin|4-(1-1),1'-biphenyl|-1-yl-1-abbylishyl|banyl|amino|-2-abbyl-98-carbarol-7-yl|-3-abbyl-86-phanyl|-6-(5-1008).808-ybnyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biphenyl|-8-(-1-3-biph

OS.CITING PEF COUNT: 0 THEFE ARE 0 CAPLUS PECONDS THAT CITE THIS PECOND (0 CITEMS)

PAGE 1-A

OS.CITING PEP COUNT: 34 THERE ARE 34 CAPLUS PECORDS THAT CITE THIS RECOURD (55 CITINGS) LDB ANSWER 1000F 194 CAFALIS COPPRINT 201 ACCOMENTA
ACCO Source Chemistry Latinors (1998), (6), 749-750 CO DEN: CMLTAG; ISSN: 0566-7022 Journal Language English on

A novel cyclic carbazale origomer, which contains the EL chromophore in the main-chair, for organic light-emitting diodes is described. The device structure of glass subseries in camport layer (M was employed. The EL device enhibited green light with a luminance of 60 orinity at 15 V. CAS Ragistry Number 215307-17-0 CAPLUS Chemical or Trade Rame
Acetic acid, cyano-, (9-tetradecyl-98-carbanole-3,6-diyi)bix(methyteme)
exter, polymer with 9-tetradecyl-98-carbanole-3,6-dioxrbonaldebyde (9CI)
(CA INDEX NAME) CRR 213387-16-7 CNF C34 H43 N3 C4 CES 183275-89-0 CEG C20 837 N G2 Me- (CH2)13 OS.CITING PEF COUNT: 0 THERE ARE 0 CAPCUS PROGRES THAT CITE THIS PROGRE (0 CITINGS) L38 ANSWER I31 OF 151 CAPLUS COPYRIGHT 2011 ACS on STN Accessor Number 1998 51198 CAPLUS ELIBERT 1998 51198 CAPLUS ELIBERT 122 220070 122 220070 Michael hypo-banched cafeazele polymes.

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HO- (CH2) 11
CRR 105-34-0
CMP C4 H5 H C2
                       Meo_U_CH2_CN
  OS.CITING PEF COUNT: 1 THERE ARE 1 CAPLUS RECORDS TRAT CITE THIS RECORD (1 CITINGS)
     Inventor
Seruzzi, T.; Ades, D.; Sove, A.; Romero, D.; Nuescht, F.; Zuppirok, L.
Assignee/Copcorio Sousce
Laboratorio de Rehenchens xur les Macromolecules, Institut Galilee, CNRS, Université Paris-Nord, Villelareuse, 93430, Fr.
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CAS Registry Number
210344-74-4 CAPLUS
\label{eq:control_control_control} \begin{split} &\text{Chemical or Trade None} \\ &\text{Poly}[\{\theta,\theta^*\}\text{-dioctyl}[3,3^*]\text{-bi-9H-carbarols}]\text{-}6,6^*\text{-diy1}\text{-carbonyloxy-1,2-sthemedyloxycarbonyl}[-(9CI)] (CA INDEX NAME) \end{split}
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PAGE 1-B

Chemical or Trade Name Poly[[3-(2-ctyrno-1,2-sthemediy1)-1,4-phrylips (2-ctyrno-1,2-sthemediy1)-1,4-phrylips (1-ctyrno-1,2-sthemediy1) (SCI) (CA INDEX NAME)

OB.CITING REP COUNT:

* THERE ARE * CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

OS.CITING PEF COUNT: 3 THERE ARE 3 CAPAUS PECONOS THAT CITE THIS PECONO (3 CITINGS)

LSS ANSWER 134 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1000/30530 CAPLUS Failand Document Number 128-4855

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130 / 1. (See A. H., 20may V. D., Wiscolds, T., Yepfa, E., Yepfa, T., Sondon, H.

130 / 1. (See A. H., 20may V. D., Wiscolds, T., Yepfa, T., Sondon, H.

130 / 130 /

of the control of the symbol and observables of a studie of the control of the co

CAS Registry Number 200309-59-7 CAPLUS

Chemical or Trade Rose 9R-Carbarola, 3,6-di-1,3-butadiyayl-9-tatradacyl-, homopolymar [9CI] (CA TRIDE NAME)

CER 208389-58-6 CMC C34 H37 N

ore relevation 135 OF 154 CAPLUS CO Accession Number 1998:116629 CAPLUS <u>Fair-Ind</u> Document Number 128:146010 Tille Hyperbranched polymens for electro Author/Inventor

International Processing Conference on the Section of the Conference on the Conferen

CAS Registry Number

Chemical or Trade Name
Rostic acid, cyamo-, polymer with 9-(11-hydroxyondscyl)-9H-carbarols-5,6dicembonalshyde (9CI) (CA INGEX NAME)

L38 ANSWER 133 OF 154 CAPLUS CO Accession Number 1988 42987 CAPLUS <u>Full-bert</u> Document Number 128:148997 Title

Information				
PATENT NO.	KND	DATE	APPLICATION NO.	DATE
JP 10176061	А	19980630	JP 1997-267507	1997100
JP 3880152	82	20070214		
IN 1997DE02252	A	20110610	IN 1997-DE2252	1997081
CM 1103454	A	19980609	CN 1997-120006	1997100
CN 1115374	С	20030723		
US 6015631	A	20000110	US 1997-944320	1997100

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Chemical or Trade Rame 1,4-Benzemediacatomitrile, polymer with 9-(2-sthythesyl)-SH-carbenole-3,6-dicarboxaldshyds (9CI) (CA INDEX NAME)

CPS 169051-20-1 CNF C22 H25 N O2

CRN 622-75-3 CNF CL0 #8 N2

CAS Registry Number 192446-73-4 CANCUS

CRN 174202-00-3 CRF C25 H31 N O3

CMb C3 H3 M D5 CMB 2J5-08-0

NC-CH2-CO2H

CAS Registry Number 1973LL-92-5 CAPLUS

Chemical or Trade Hame 98-Carbanole, 3.6-diathynyl-9-te CN

CPR 188740-71-8 CNF C30 837 N

OS.CITING REP COUNT: 152 THERE ARE 152 CAPLUS RECORDS THAT CITS THIS DECOMD (155 CITIMOS)

ntormation				
PATENT NO.	KND	DATE	APPLICATION NO.	DATE
GB 2313127	A	19971119	GB 1995-24002	19951119
GB 2313127	В	19981014		
KR 176331	B1	19990400	ER 1996-16449	19960516
US 5007974	A	19900915	US 1995-756036	19961126
JP 10036407	A	19900210	JP 1997-69479	19970324
JP 3121282	02	20001 225		

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CAS Registry Number 202129-01-5 CAPLUS

Chantcal or Trade Name Pull | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 |

PAGE 1-B

CPM 202130-02-7 CMP C58 H56 O3 F2 , 2 Be

Chemical or Trade Name
Poly[[9-[2-[2-(2-methoxylathoxylathoxylathy1]-98-carbanols-3,6-diy1]-1,2athenediy1-98-fluorana-2,7-diy1-1,2-athenediy1[(SCI) (CA INGGC NMCE]

CAS Registry Number 202129-78-0 CAPLUS

PAGE 1-B

CAS Registry Number 202129-82-6 CASSUS

Chemical or Trade Rama
Poly||9-|2-|2-(2-methoxylethoxylethoxylethyl)-98-catbarole-3,6-diyl|(2-cyaro-1,2-abhanadiyl)|9-haxyl-98-fisocana-2,7-diyl|(1-cyaro-1,2-abhanadiyl)|(961)|(CA INBEX BANG)

CAS Registry Number 202130-05-0 CASKUS

Chemical or Trade NonTrade Tones -2, -daythir(milbytana) http://phayt.dibroids, polymer with 4-12-12-(Camibonythoxysibhoxysibhyt)-98corlamels-3,6-disembonolethyde (SCI) (CA INDEX NAMES)

EX 1

CBH 202130-04-9 CMF C51 H42 P2 . 2 Be

●2 Br-

CML CST NS 2 N 00 CM 505130-02-9 CM

PAGE 1-B

CAS Pagistry Number 202129-79-1 CAPLUS

Chanical or Trada Mans Poly[] = [-2 | 2-(2-mathosysthosys|sthosy|sthyt|-98-cachanols-7, 6-diyl|-1, 2-stherediyl[9-heayl-98-Eleorene-2, 7-diyl]-1, 2-stherediyl[(SCI) (CA INGEX RAGE)

PAGE 1-A

PAGE 1-B



CAS Registry Number 202129-80-4 CAPLUS

Chemical or Teads Name
Poly[[3-[2-[4]-makhoxyshboxy] shboxy[shby1]-98-carbarola-5,6-diy1]-1,2-abhandiy1[9,9-dibaxy1-88-fluorana-2,7-diy1]-1,2-abhandiy1[9,6-dibaxy1-88-fluorana-2,7-dibaxy1-88-fluorana-2,7-diy1]-1,2-abhandiy1[9,6-dibaxy1-88-fluorana-2,7-dibaxy1-88-fluoran

CAS Fagistry Number 202130-06-1 CAPLUS

CMB 505130-02-9 CMB 505130-02-9

CEOR 189368-07-8 CNG C51 R54 P2 . 2 Re

CAS Pagistry Number 202130-07-2 CAPGUS

CRN 202130-03-0 CRD C21 823 N O5

CFS 107140-76-1 CNF C63 H66 F2 . 2 Br

CAS Registry Number 202130-09-4 CASKUS

Chemical or Trads News
30-Throsener2, Pedacetomitrile, 9-htsyl-, polymer with
91-Throsener2, Pedacetomitrile, 9-htsyl-, polymer with
92-[2-]-[2-d-minosymboxy|shboxy|shby1-92-randware1-5, 4-dicarboxaldshyds
(MCI) (CA INDEX NOWE)
CX

CNN 202130-03-8 CNN C21 H23 N O6

CM 2 CBM 202129-99-5 CMP C23 H24 N2

CAS Requistry Number 202130-03-0 CAPLUS

Chamical or Trads Rens 98-Carbarols-3,6-dicarboxeldehyde, 9-[2-[2-(2-methoxy (Ch INDEX RANS)

$$\label{eq:Mechanical Characteristics} \operatorname{Mechanical Characteristics} \operatorname{Mechanical Characteristics} \operatorname{Characteristics} \operatorname{Charac$$

OS.CITING HEF COUNT: 25 THERE ARE 25 CAPCUS PERCORDS THAT CITE THIS PROCED (20 CITINGS)

PAGE 1-B



CAS Registry Number 109576-03-2 CAPLUS

PAGE 1-A



CAS Registry Number 201745-62-2 CAPLUS

Chemical or Trade Name
Phosphonium, [(dibutylmitylane)bim(4,1-phosphonium, ||bim|triphomyl-,
dibromide, polymer with 9-(2-minylhemyl-9H-combranle-3,6-dicombosmide)yde
(GCI) (CR. INDEX NAME)

CRM 101640-92-0 CNF C50 H60 P2 SL , 2 Se

L38 ANSWER 137 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN 1008/8001 CAPLUS <u>FIGS-8d</u> Document Number 126 141270 Title

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CAS Registry Number 169051-20-1 CANCUS

Chemical or Trade Rame 98-Carbarole-3.5-dicorboxeldshyde, 9-(2-sthylheayl)- (CA INDEX NAME)

CAS Registry Number 109575-99-J CAPLUS

Chemical or Trade Rams
Foly[[9-(2-ethylheayl)-98-carbenole-3,6-diyl]-1,2-ethenodiyl-1,4phenylane(diphenylailylane)-1,4-phenylane-1,2-ethenodiyl|(9CI) (CA IRDEX
RAMS)

PAGE 1-A

CAS Pagistry Number 201765-63-3 CAPLUS

(CH2)5-Me i— (CH₂)5—Me

CAS Registry Number 201745-65-5 CAPLUS

Chemical or Trade Rame
Poly([9-(2-athylhazyl1-38-carbanols-3,6-diyl]-1,2-athenediyl-1,4phenylane(dihazylsilylene)-1,4-phenylane-1,2-athenediyl| (SCI) (CA INGEX
RAMG)

CAS Registry Number

Chiesical or Trads Ness
Phosphosium, [(diphreylstlylers|bis(4,1-phenylensethylers)|bis[triphenyl-dibrenylens])bis[triphenyl-dibrenole-3,6-dibrenide-1],bis[triphenyl-dibrenole-3,6-dibrenide-3],bis[triphenyl-dibrenole-3,6-dibren

CDM 181648-95-3 CMP C62 H52 P2 St . 2 Be

CFM 169051-20-1 CMF C22 H25 N D2

OG.CITING PEP COUNT: 136 THERE ARE 136 CAPCUS PECORDS THAT CITE THIS SECOND (139 CITINGS)

L38 ANSWER 136 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 1069-57754 CAPLUS Fig-5-6;1 Document Number 1262-0276 CAPLUS Fig-5-6;1 1262-0276 CAPLUS Fig-5-6;1 Document Number 1262-0276 C Novel electrocordinate polypophosylaranyshania abded polymana for blue lifth emillion glodos. General Service (Fire Marthurg Mini K.Ching Lee, Jahleon P.ak, Jong-Wook, Cho, Beeng-Woo Destributed of Manomiscular Service, Hongan University, Taylor, 200-207; S. Konse Gentle Walson, 1407; 1911-19, 207-209 CODER: SYMEDS, USAN COTINETTO and Type of Type Jonation (January 1997; 1911-19), 207-209 CODER: SYMEDS, USAN COTINETTO and Type Jonation.

A new class of full-concentrating publy-phrendperon/when-y-independent polymen with a uniform a conjugated segment, applied by regeneration units, shaws two storage documents and a contraction of the con

CAS Ragistry Number 109575-99-1 CAPLUS

Chemical or Trade Name
Poly([9-(2-athythaxy1)-98-carbanols-3,6-diy1]-1,2-athanadiy1-1,4phraylane(diphraylsilylane)-1,4-phraylane-1,2-athanadiy1-(9CI) (CA INDEX
NAME)

PAGE 1-A



CAS Pagistry Number 109576-01-0 CAPLUS

Chinical or Yeafs Bans
Poly| [9-12-athythssyl-s8-carbanola-3,6-diyl]-1,2-athanadiyl-1,4-phenylane(hezylaethylailylane)-1,4-phenylane-1,2-ethenediyl| (Ch INGEX BMSS)

CAS Registry Number 189576-03-2 CAPLUS

Chunical or Trade Rons
Poly[9-[2-cathythay1]=80-cachamola=3,6-diyl]=1,2-athanadiyl=1,4-phenylana(dibutylsilylana)=1,4-phenylana-1,2-athanadiyl[(9CI) (CA INDEX 1866)

PAGE 1-A

PAGE 1-B



CAS Registry Number 169061-20-1 CAPLUS

OB.CITING HEF COUNT: 15 THERE ARE 15 CAPCUS PECONDS THAT CITE THIS PECOND (15 CITINGS)

SWER 139 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN

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CAS Registry Number 199921-31-0 CAPLUS

Chemical or Trade Rame 98-Carbarola-J.6-disarboxylic acid, 9-octyl-, disar (SCI) (CA INDEX NAME)

(CH2)7-Me

OB.CITING PEF COURT: 61 THERE ARE 61 CAPLUS RECORDS THAT CITE THIS RECORD (RC CITINGS)

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The second report of the productions are producted as part of the production of the

CAS Pagistry Number 197311-92-5 CAPLUS

Chemical or Trade Hame 28-Carbanols, 3,6-dishlynyl-9-tskradecyl-, homopolymer (CA INDEX NAME)

Me- (CH2)13

OS.CITING PEF COUNT: 23 THERE ARE 23 CAPLUS PECORDS THAT CITE THIS RECORD (23 CITINGS)

LSS ANSWER 141 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN According Windows CAPLUS Full-Med Document Number 122-1085031

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CAS Registry Number 169061-20-1 CAPLUS

Chemical or Trade Name 3H-Carberola-3,6-dicarbosaldshyds, 9-(2-sthylheayl)- (CA INDEX NAME)

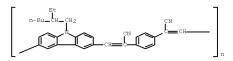
CAS Registry Number 169061-91-9 CAPLUS

Chemical or Trade Name 1,4-Wennersdiscotositrile, polymer with 9-[2-stbylhazyl-38-orehanole-3,6-dicarboxaldehyde (9CI) (CA INDEX NAME)

CPM 169051-20-1 CMF C22 H25 N C2

CAS Registry Number 192446-73-4 CASKUS

Chemical or Trade Name
Poly[]9-(2-strythasy1)-88-carbanols-3,6-diy1[(2-cyano-1,2-sthensdiy1)-1,4-phsytaes[1-cyano-1,2-sthensdiy1] (SCI (CR INDEX NAME)



OS.CITING REF COUNT: 49 THERE ARE 49 CAPACE RECORDS THAT CITE THIS RECORD (49 CITINGS)

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CAS Registry Number 169051-20-1 CAPLUS

CAS Registry Number

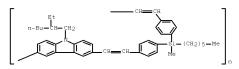
Chunical or Trads Name
Poly([9-[2-stbg/lawy]]-98-carbarols-5,6-diyl[-1,2-stbarediyi-1,4REGY Landshardylsiylasi-1,1-phenylens-1,2-stbarediyl] (SCI) (CA INGEX

PAGE 1-A

PAGE 1-B

CAS Registry Number 109576-01-0 CAPLUS

Chemical or Trade Name
Poly||9-(2-shhylhasyl)-58-carbanole-J,6-diyl|-1,2-shhemediyl-1,4phonylane(banylmethylmilylane)-1,4-phonylane-L,2-shhemediyl| (CA IMDEX
MARKO



CAS Registry Number

Chesical or Trade Rese

Poly(|9-(2-ethylhesyl)-98-cerberole-3.6-diyl)-1.2-ethesediyl-1.4phenylams(dibotylatiylams)-1.4-phenylams-1.2-ethesediyl-(SCI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B



OS.CITING PEF COUNT: 1 THEPE ARE 1 CARCUS PERCORDS THAT CITE THIS PERCORD (1 CITEMS)

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CAS Registry Number 169051-20-1 CAMEUS

Chemical or Trade Rams 98*Carbanole-3.6*dicarboxaldehyde, 9*(2*ethylheayl)= (CA INDEX NAME)

CAS Registry Number 107140-70-3 CAPLUS

Chemical or Trade Name
Phosphonium. | (9,9-dihenyl-90-fluorene-2,7diyilbis(mathylann)||bis||triphug-, dibronide, polymax with
2-(2-athylanyl-30-cachanola-2,6-diarkonaldahyda (9CI) (CA IMMEX NAME)

CRN 107140-76-1 CNF C63 H66 P2 . 2 Bc

●2 Br-

CAS Registry Number 107140-79-4 CAPLUS

Chemical or Trade Name Poly| $[9\cdot(2-athythesyl)-59\cdot cachenole-3, 6-diyl]-1, 2-athenediyl, 9, 9-dihesyl-38-fivorene-2, <math>?$ -diyl, -1, 2-athenediyl| (PCI) (CA INDEX NAME)

PAGE 1-B

OG.CITING REP COUNT: 36 THERE ARE 36 CAPCUS RECORDS THAT CITE THIS SECOND (36 CITINGS)

ANSWER 144 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN tion Number 1006/60/245 CAPLUS <u>Elifabel</u> ort Number 126:17/642

13611784-x
New type eie Ctrelluminercent polymens based on cafazzob der kaffves.
Inventor
Pals, J. W.; Lee, J. C.; Lee, J. H.; Cho; S. K.
ResignerCopculate Source
R&D Center, Samsung Display Devices, Suwon, 442-390, S. Koesa

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The authors describe have the electriculminersense properties of one type partially originated polymer which has opin (electricul interport part) and cabacito movily (tole listengor) part. This polymer thouse
professionerscore sizual rate. 4.25 mitspecting varieties and 4.10 mit part described interescent account have a 10 mit part of professioners account rate. 4.25 mitspecting varieties and controlled and characterisation between the workerforlulminescent polymer based or
mission between the resulting substantial particle group or the polymer man one. This polymer between the between controlled and the professioners are controlled and the professioners are of the professioners and the professioners are controlled and the professioners ar

CAS Registry Number 169051-21-2 CAPLUS

Chemical or Trade Name 1,4-Benzenadiacetomitrile, polymer with

CRN 169051-20-1 CNF C22 H25 N O2

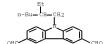
CM 2 CPS 622-75-3 CMP CL0 88 N2

Chemical or Trade Rams
Poly[[3-(2-sthythasyl]-88-carbanola-3,6-diyl](2-cyano-1,2-sthanadiyl)-1,4-phanylana(1-cyano-1,2-sthanadiyl)|
[9C] (CA INDEX NAME)

PAGE 1-A

CAS Pagistry Number 169051-20-1 CAFGUS

Chemical or Trade Name 98-Carbanole-2,6-dicarboxaldabyde, 9-(2-abbylbeayi)- (CA INDEX NAME)



Chinocoll or Trade Ness Bennementainitrile. 4.4'-[1,6-beamedigthis[oay]]bix- polymer with 9-(2-thy)bey[1-86-catheols-7,6-dicerboal/shyde (KCI) (CA INDEX SAME) CK

CEUM 181175-48-4 CMG C22 H24 N2 C2

CDH 169051-20-1 CMF C22 H25 N D2

OS.CITING REP COUNT: 1 THERE ARE 1 CAPLUS ESCOROS TRAT CITE THIS ESCOROS (1 CITINGS)

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CAS Pagistry Number 101175-49-5 CAPLUS

Chimical of Trade Name Renzementelonikisle, 4,4"-[1,6-hexamediyibis(ozy)|bis-, polymer with 9-(2-ehylhaey)|-94-ozenbarole-),6-dicarbonaldehyde (SCI) (CA IMDEX NAME)

CEOR 169051-20-1 CNG C22 825 N G2

CAS Registry Number 101175-53-1 CAPGUS

Chemical or Trade Name
Poly([9-(2-ethylhenyl1-88-cachemole-3,6-diyl)(2-cyemo-1,2-ethenediyl1-1,4phisylaneocy-1,4-ehazamidyloxy-1,4-phanylems(1-cyemo-1,2-ethenediyl)|
[SCI] (CA INDEX SMOI)



OS.CITING PRF COUNT: 1 THERE ARE 1 CARLUS RECORDS TRAT CITE THIS RECORD (1 CITINGS)

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atom k	nformation				
	PATENT NO.	KND	DATE	APPLICATION NO.	DATE
	WD 9610590	Al	19960411	WD 1995-823496	19950920
	DE 4435047	Al	19950404	DE 1994-4435047	19940930
	DE 19505416	Al	19960822	DE 1995-19505416	19950217
	RP 703541	Al	19970716	RP 1995-935677	19950920
	EP 783541	81	19990113		
	JP 11501955	τ	19990216	JD 1995-511305	19950920
	US 5074179	A	19990223	US 1997-009772	19970320

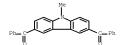
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CAS Registry Number 177961-05-6 CAPLUS

Chemical or Trade Name
Phosphosic actd, [12.5-bis/octyloxy)-1,4-phanylane|bis/ostbylane||bistelesetbylanelene, polymer with (9-methyl-9H-oerherole-3.6diyllbis/phenylanelbenome| 96C1 | CA INDEX NAME]

CPR 176056-31-0 CNF C32 H60 C0 P2

CM 2 2 CDM 76544-71-5 CMF C27 H19 N C2



Chemical or Trade Name
Poly(9-mathyt-3H-cartamola-3, 6-diyl)(1-phanyl-1, 2-athanadiyl) | 2,5-bix(octyloxy)-1,4-phanylama|(2-phanyl-1,2-athanadiyl)| (SCI) (CA INDEX NAME)

CAS Registry Number 177861-07-0 CAPLUS

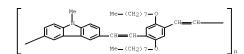
Chinical or Trada Rama
Phosphonic acid. [[2,5-bis(octyloxy)-i,4-phosphonic his(melbylene]]bistatenthyl sater, polymer with 3-methyl-3H-carbonole-5,4-dicarbonaldshyde
(SCI (CR. EMBOC SWEE)

CMA C38 He0 D8 M8 CMM 136926-27-9

CRS 293??-72-0 CNF CL5 HIL N O2

CAS Registry Number 177961-08-9 CANCUS

Chemical or Trade Renz
Poly(9-mithyl-9H-carbanols-5, 6-diyl)-1, 2-mithanodiyl(2,5-bix(octyloxy)-1,4-phenylane|-1,2-mithanodiyl((&I) (&I) DEEX NAME)



OG.CITING PRF COUNT: 0 THERE ARE 0 CAPCUS PRECISES TRAT CITE THIS PRECISES (0 CLTIMES)

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Japanese information				
PATENT NO.	KND	DATE	APPLICATION NO.	DATE
JP 08003547	A	19960109	JP 1995-73529	19950330
JP 3139321	82	20010226		

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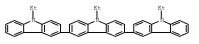
His Structure.

CAS Registry Number 14446-87-7 CASKUS

Chemical or Trade Name 3.31:6'.3'':9''.9'''-telecarDryl- (CA TROMC Name 1.31:6'.3''.9'''-telecarDryl- (CA TROMC NAME)

CAS Registry Number 175017-94-4 CASKUS

Chemical or Trade Name 3.3':6'.3''-Ter-9H-carbarole, 9.9'.9''-briethyl- (SCI) (CA INCHI NAME)



di	information				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 06136360	A	19940517	JE 1992-312618	19921029
	JP 3044142	82	20000522		
	JP 2000150164	A	20000530	JD 1999-351379	19991210
	JP 3141023	B2	20010305		

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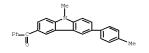
CAS Pagistry Number 160108-65-6 CAPLUS

Chemical or Trade Rame Ethanoma, 1-(6-athenyi-

CAS Registry Number 160108-68-9 CAPGUS

CAS Registry Number 160108-75-8 CAPLUS

Chemical or Tends Name Mathematic, [3-mkhyl-6-(4-mkhyl-khryl)-50-carbanol-3-yl/phanyl- (CA TRBES NAME).

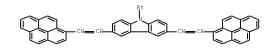


L38 ANSWER 140 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN 100 2070/0 CAPLUS FLEAM! DOCUMENT MADE 2011 ACS ON STN 122 2011 ACS ON This
Organic field-effect is kindroluminessent device containing pyrem derivarite
Authoritismsky, Arizander, Arizander, Adamhi, Hiroshi, Salico, Hirota, Adachi, Chihaya, Cola, Masabumi
Research, China, Carante, Adamhi, Hiroshi, Salico, Hirota, Adachi, Chihaya, Cola, Masabumi
Research, China, Adamhi, Alizander, China, Adachi, China, Carante, China, ct
The device has all organic compound layer containing a p
emitting layer. The device showed good dusability.

unions.

CAS Registry Number 149217-33-4 CAPCUS

Chemical or Tuede Home 98-Carbarole, 9-athyl-3,6-biz[2-(1-pyranyl)athenyl] - (CA INDEX NAME)



OS.CITING PEF COUNT: 1 THEFE APE 1 CAPLUS (1 CITINGS)

Jpn. Kokal Tokkyo Koho, 23 pp. OODEN: JKXXAF meet Type Patket

Abdition
The device consists of a his-invitation metrical for IFEL 2 - CFL0 abox CF20 and CF2

Chemical or Trade Rams 98-Carbarole, 3,5'-[(3,3'-dishbyl[1,1'-biphsnyl]-4,4'-digi]di-2,1-sthessdyl[bis[9-shyl-6-mathyl- (9CT) (CA INDEX NAME)

PAGE 1-A

PAGE 1-A

PAGE 1-B

PAGE 1-B

PAGE 1-B

CAS Registry Number 150973-99-2 CAPLUS

Chemical or Trade Name 98-Carberole, 3,3'-[(1-methylethylidene)bis(4,1-phasylene-2,1-ethenediyl]bis[<math>9-ethyl-6-methyl- (SCI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number

Chemical or Trade Rome SH-Carbanols-S-carbonaldehyds, 3-sthyl-6-asthyl- (CA INDEX NAME)

OS.CITING PEF COUNT: 1 THEFE ARE 1 CAPLUS PERCORDS THAT CITE THIS PERCORD (1 CITEMS)

or sashi, Toshihko; Ota, Masabumi; Oruma, Teruyuki; Kawamura, Fumio; Sakon, Hiota eeCosposte Source Co., Ltd., Japan

CAS Registry Number 145588-02-9 CAPLUS

CAS Registry Number 145588-04-1 CAPLUS

OB.CITING PEF COUNT: 2 THERE ARE 2 CAPCUS PECONDS THAT CITE THIS PECOND (2 CITINGS)

LISE ANSWER 1520F1M CAFLUS COPYRISHT 2011 ACS on STN ACCORDING CAFLUS Faited 1164S522 THE CAFLUS FAITED 1164S52 THE CAFLUS FAITED 1164S52

hoslinvenice Orama, Teoryski, Suzuki, Tehsuc; Kawarmusa, Furnic; Oka, Massiburni; Sakon, Hisota; Takahashi, Toshihko edi AssipnesComposte Source

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CAS Registry Number
119546-72-4 CAPLUS
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Chassical or Trade Name. 98-sthyl-R,R'-diphenyl-, homopolymer (SCI) (CA TROCK NAME).

CRH 119546-71-3 CMF C26 H23 N3

OS.CITING PEF COUNT: 3 THERE ARE 3 CAPLUS RECORDS TRAT CITE THIS RECORD (3 CITINGS)

The file device, usled for use as a large-area light source, compating, allowy, halogen), time CAS Requistry Number 70501-42-9 CAPUM Chemical or Trade Name SH-Carbarola-3, 6-diamins, 9-shbyl-NJ, NS, NS-hebrakis(phenylmethyl) - (CA IRDEX NMS)

CAS Registry Number 106078-50-0 CAPLUS

Chemical or Trade Name 9H-Carbasola-7, 6-diamine, 9-ethyl-NJ, NJ, N6, N6-tebrakis|(4-methoxyphonyl)methyl|- (CA INDEX NAME)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS TRAT CITE THIS RECORDS (4 CITINGS)

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CAS Registry Number 70541-42-9 CAPCUS

Chunical or Teads Rams 9B-Corberole=3,6-dissine, 9-ethyl=NS,NS,H6,H6-teteskis(phenylmethyl)- (CA RUBEN NAME)

CAS Registry Number 106872-50-8 CAPEUS

Chemical or Trade Hame 98-Carbarole-3.6-diamine, 9-ethyl-N3.N3.N6.N6-tetrahis[(4-asthoxyphenyl)asthyl)- (CA INDEX SAME)

OB.CITING PEF COURT: 1 THERE ARE 1 CAPCUS PECONDS THAT CITE THIS PECOND (1 CITEMOS)

LS ARSWER IS4 OF 154 CAPLUS COPYRIGHT 2011 ACS on STN
Accessor Number
1999 15452 CAPLUS <u>Euclant</u>
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